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U.S. DEPARTMENT OF AGRICULTURE

PESTICIDES DOCUMENTATION BULLETIN

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OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

- 10 Entomology
- 20 Crop Protection
- 30 Livestock Protection
- 40 Commodity Protection
- 50 Environmental Contamination
- 55 Residues
- 60 Toxicology
- 65 Plant Physiology & Biochemistry
- 70 Chemistry
- 80 Engineering
- 90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

Biographical Index: Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

Author Index: Names of personal authors are arranged alphabetically, followed by accession numbers of pertinent citations.

Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

Other Files

In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

The INTREDIS Register is a computer data bank in the field of forest pathology. It contains title and author references to abstracted articles including subject, country, host plant genus or species, organisms causing the diseases, abstracting journal and year of publication. The computer search uses boolean parameters in any combination of elements listed.

The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

- Compound Tested
- Company furnishing the compound
- Author or Investigator
- Test Sponsor
- Date
- Location
- Mode of Application
- Rates of Application
- Soil Types
- Carriers
- Crops or Weeds tested with phytotoxicity ratings
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Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

PLEASE GIVE COMPLETE BIBLIOGRAPHIC INFORMATION AS IT APPEARS IN THIS PUBLICATION FOR EACH ITEM REQUESTED.

This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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BIBLIOGRAPHY

ENTOMOLOGY

14118-69

STUDIES ON THE BIOLOGY AND CONTROL OF *SOGATELLA FURCIFERA* HORV. (DELPHACIDAE: HOMOPTERA) IN THE PUNJAB.

A S Atwal J P Chaudhary B S Sohi

Punjab Agr Univ J Res 4(4):547-555 REF

Dec 1967 \$19.98

Biology, Chemical control (insects), Histology, Insect morphology, Insect rearing, Laboratories, *Sogatella*.

14119-69

AN APPARATUS FOR DISPENSING HOUSE FLY EGGS MECHANICALLY.

A S Perry

J Econ Entomol 61(4):1112-1113

15 Aug 1968 421 J822

Autoclaves, Equipment, Illustrations, Insect control, Insect dissemination, Insect eggs, Measurement, Mechanization, *Musca domestica*, Research.

14120-69

IMPORTANT FOREST INSECTS OF ONTARIO IN 1966.

A H Rose

Entomol Soc Ontario Proc 97:8-10

1966 420 ON8

Entomology, Forest insects, Insect control, Research, Sampling (statistics), Spraying.

14121-69

EFFECT OF POPULATION DENSITY ON THE LARVAL COLORATION AND DEVELOPMENT OF LARVA AND PUPA IN THE LARGER PELLUCID HAWK MOTH, *CEPHONODES HYLAS* L. (LEPIDOPTERA: SPHINGIDAE). (JA)

M Sasakawa S Yamazaki

Jap J Appl Entomol Zool 11(4):157-163

Dec 1967 475 J27

Color, *Gardenia*, Insect morphology, Insect pests, Mortality, Population, Research, *Sphingidae*. English summary

14122-69

RELATIVE EFFICACY OF DIFFERENT INSECTICIDES, AS CONTACT POISONS, TO THE LARVAE OF THE DIAMOND-BLACK MOTH, *PLUTELLA MACULIPENNIS* CURTIS (LEPIDOPTERA: PLUTELLIDAE).

A N Verma G S Sandhu

Punjab Agr Univ J Res 4(4):556-559

Dec 1967 \$19.98

Chemicals, Insecticides, Laboratories, *Plutella maculipennis*, Tables (data), Toxicology.

SYSTEMATICS

14123-69

REVISION OF INDO-PAKISTAN PARISOMIAS FAUST (COLEOPTERA, CURCULIONIDAE) WITH SOME NOTES ON LEPTOMIAS FAUST.

N A Aslam

Ann Mag Natur Hist 3(4,OCT-DEC):543-560

Dec 1969 410 AN77

Collembola, Curculionidae, Insect histology, Insect physiology, Insect taxonomy, Oogenesis, Parthenogenesis, Zoogeography.

14124-69

RAPHIDIIDAE (INSECTA, NEUROPTERA). 154. CONTRIBUTION TO THE SERIES RESULTS OF THE ZOOLOGICAL INVESTIGATIONS OF DR. Z. KAZAB IN MONGOLIA. (DU)

H Aspock U Aspock

Entomol Ber 28(6):115-120

01 Jun 1968 420 N38B

Insect taxonomy, Neuroptera, Zoogeography. English abstract

14125-69

BRUCHID BEETLES (COLEOPTERA, BRUCHIDAE) FROM THE MEGRI DISTRICT OF ARMENIA.

B A Bagdasaryan

Entomol Rev 46(4,OCT-DEC):475-477 REF

Dec 1967 421 R322AE

Bruchidae, Catalogs, Host relationships, Insect taxonomy, Plant taxonomy. Russian journal pp. 805-807

14126-69

A SURVEY OF THE DISTRIBUTION AND PRESENT STATUS OF THE WOOD ANT, *FORMICA RUFA* L. (HYM., FORMICIDAE) IN ENGLAND AND WALES.

K E J Barrett

Soc Brit Entomol Trans 17(8):218-233,MAP REF

Mar 1968 420 SO15

Formica rufa, Formicidae, Statistical distributions, Zoogeography.

14127-69

CONTRIBUTION TO THE KNOWLEDGE OF THE NEOTROPICAL ORIBATID FAUNA. 5. ARCHEGOZETES. (ARACH., ACARI). (GE)

L Beck

Senckenb Biol 48(5-6):407-414

22 Dec 1967 410.9 SE5

Insect taxonomy, Oribatei, Zoogeography.

14128-69

A NEW SPECIES OF ICHNEUMONIDAE FROM RUMANIA. (GE)

M J Constantineanu

Deut Entomol Ges Mitt 20(1):14-16

15 Feb 1961 420 D482

Ichneumonidae, Taxonomy, Zoogeography.

14129-69

AN INDEX-CATALOGUE OF THE GENUS- GROUP NAMES OF ORIENTAL AND AUSTRALASIAN TACHINIDAE (DIPTERA) AND THEIR TYPE-SPECIES.

R W Crosskey

Brit Mus (natur Hist) Entomol Bull Suppl

20(1):1-39

1967 420 B773

Catalogs, Insect taxonomy, Tachinidae, Zoogeography.

14130-69

CONTRIBUTION TO THE KNOWLEDGE OF THE GENUS SAPRINUS (COL. HISTERIDAE). II. (GE)

G Dahlgren

Opusc Entomol 33(1-2):82-94

1968 421 OP7

Catalogs, Histeridae, Insect taxonomy, Zoogeography.

14131-69

SPHECIDAE OF THE CANARY ISLANDS (HYMENOPTERA). (FR)

J De Beaumont

Brit Mus (natur Hist) Entomol Bull Suppl

21(5):247-278 REF

1968 420 B773

Catalogs, Insect taxonomy, Sphecidae. English abstract

14132-69

THE EXISTENCE OF BARK BORERS IN BERLIN (LEPID.). (GE)

H Dorfmann

Deut Entomol Ges Mitt 19(1):17-19 REF

15 Feb 1960 420 D482

Bark, Lepidoptera, Surveys, Zoogeography.

14133-69

QUASIHESMA--A NEW GENUS OF AUSTRALIAN BEES (APOIDEA: COLLETIDAE).

E M Exley

Australian J Zool 16(2):227-235

May 1968 410 AU73

Catalogs, Colletidae, Insect taxonomy.

14134-69

REVISION OF THE GENUS EURYGLOSSELLA COCKERELL (APOIDEA: COLLETIDAE).

E M Exley

Australian J Zool 16(2):219-226

May 1968 410 AU73

Catalogs, Colletidae, Insect taxonomy.

14135-69

REVISION OF THE GENUS EURYGLOSSULA MICHENER (APOIDEA: COLLETIDAE).

E M Exley

Australian J Zool 16(2):203-217

May 1968 410 AU73

Catalogs, Colletidae, Insect taxonomy.

14136-69

A NOTE ON THE NEW SPECIES OF SPHEGIGASTER SPIN. (CHALCIDOIDAE, PTEROMALIDAE). (FR)

C Ferriere

Deut Entomol Ges Mitt 18(6):97-99

15 Dec 1959 420 D482

Chalcidoidea, Insect identification, Insect taxonomy, Pteromalidae.

14137-69

GEOTACTIC RESPONSE OF THE TWO-SPOTTED SPIDER MITE, *TETRANYCHUS URTICAE* KOCH (ACARINA: TETRANYCHIDAE).

W H Foot

Entomol Soc Ontario Proc 95:106-108

1964 420 ON8

Greenhouses, Habitats, Hibernation, Insect behavior, Research, *Tetranychus urticae*.

14138-69

ORIBATID MITE FAUNA IN SAROBETSU MOOR IN NORTHERN HOKKAIDO, JAPAN.

(JAP)

T Fujikawa

Jap J Appl Entomol Zool 12(1):29-33

Mar 1968 475 J27

Agricultural research, Insect ecology, Mites, Moors, Oribatei, Population, Soil biology, Statistical distributions, Zoogeography. English summary

14139-69

NOTES ON THE GENUS SCHYZOPS SPINOLA, 1837 (PHYLLOCEPHALINAE, PENTATOMOIDEA, HETEROPTERA). MARITIMA (GUER.).

M S K Ghauri

Ann Mag Natur Hist 3(4,OCT-DEC):597-602

Dec 1969 410 AN77

Collembola, Head, Insect eggs, Insect histology, Insect physiology, Insect taxonomy, Pentatomidae, Zoogeography.

14140-69

FURTHER NOTES ON ICELANDIC AGROMYZIDAE (DIPT.).

G C D Griffiths

Opusc Entomol 33(1-2):129-138

1968 421 OP7

Agromyzidae, Catalogs, Insect taxonomy, *Liriomyza*, *Phytomyza*.

14141-69

ISOPTERA FROM VIETNAM, CAMBODIA AND THAILAND.

W V Harris

Opusc Entomol 33(1-2):143-154

1968 421 OP7

Catalogs, Insect taxonomy, Termites.

14142-69

ADVANCES AND PROBLEMS OF APPLIED ENTOMOLOGICAL STUDIES IN AGRICULTURE AND FORESTRY. (JA)

H Ishikura

Kontyu 35(3):259-266 REF

Sep 1967 421 K833

Agriculture, Economic entomology, Forestry.

14143-69

A NOTE ON THE GENUS PSEUDATHYMA STAUDINGER WITH DESCRIPTION OF A NEW SPECIES (LEPIDOPTERA: NYMPHALIDAE).

T H E Jackson

Ann Mag Natur Hist 3(4,OCT-DEC):493-496

Dec 1969 410 AN77

Biophysics, Foot-and-mouth disease virus, Insect taxonomy, Methodology, Nymphalidae, Polyethylene glycol, Zoogeography.

14144-69

A STUDY OF THE POPULATION OF INSECTS EMERGING AS ADULTS FROM SPETTIGUE'S POND AT LONDON, ONTARIO.

W W Judd

Entomol Soc Ontario Proc 97:90-98

1966 420 ON8

Insect names, Insect taxonomy, Larvae, Population, Research, Statistical analysis, Traps.

14145-69

DRAGONFLY CATCHES FROM THE GIFFHORN AREA (A CONTRIBUTION TO THE ODONATA FAUNA OF LOWER SAXONY). (GE)

G Jurzitz

Entomol Z

01 Sep 1969 421 EN85

Odonata, Surveys, Zoogeography.

14146-69

THE PRESENT DISTRIBUTION OF HYLOTRUPES BAJULUS L. (COL., CERAMBYCIDAE) IN NORWAY AND ITS ABUNDANCE IN SOME DISTRICTS.

P Knudsen A Bakke

Norsk Entomol Tidsskr 14(2):94-102, MAP REF 1967 421 N812

Cerambycidae, Houses, Hylotrupes bajulus, Population, Zoogeography.

14147-69

LAMELLAREA, A NEW ORIBATID GENUS (ACARI) FROM SOUTH AFRICA.

O B Kok

Acarologia 10(4):711-724

Dec 1968 434.8 AC1

Insect taxonomy, Lamellarea, Oribatei.

14148-69

TWO NEW ORIBATID MITES FROM SOUTH AFRICA (ORIBATEI, ACARI).

O B Kok

Acarologia 10(4):696-710

Dec 1968 434.8 AC1

Insect taxonomy, Oribatei.

14149-69

LEAF BEETLE LARVAE OF THE SUBFAMILY EUMOLPINAE AND OF SYNETA BETULAE F. (COLEOPTERA, CHRYSOMELIDAE).

G F Kurcheva

Entomol Rev 46(1, JAN-MAR):132-137 REF

Mar 1967 421 R322AE

Catalogs, Chrysomelidae, Insect morphology, Insect taxonomy, Larvae, Zoogeography.

14150-69

A NEW SUB-GENUS OF TETRALOBUS (COLEOPTERA ELATERIDAE). (FR)

L Laurent

Gembloz. Inst Agron Etat Bull 3(2):328-330

1968 105.1 G285

Elateridae, Insect taxonomy, English abstract

14151-69

THE OCCURENCE OF ECTOEDEMIA LIBWERDELLA ZIMM. IN WESTERN GERMANY (LEPIDOPTERA, NEPTICULIDAE). (GE)

E Lindner

Deut Entomol Ges Mitt 18(1):7-8

15 Feb 1959 420 D482

Lepidoptera, Nepticulidae, Taxonomy, Zoogeography.

14152-69

THE ICELANDIC FORM OF CARABUS PROBLEMATICUS HBST. (COL., CARABIDAE). A STATISTIC TREATMENT OF SUBSPECIES.

C H Lindroth

Opusc Entomol 33(1-2):157-182 REF

1968 421 OP7

Carabidae, Insect taxonomy, Statistics, Zoogeography.

14153-69

CONTRIBUTION TO THE KNOWLEDGE OF COLOMBIAN FAUNA OF THE CICADELLIDAE. (SP)

R Linnavuori

Agr Trop 24(3):147-156

Mar 1968 26 AG8

Cicadellidae, Insect taxonomy.

14154-69

THE INSECT FAUNA IN THE BURROWS OF THE LONG-CLAWED MOLEVOLE, A CAUCASIAN ENDEMIC SPECIES.

Yu A Lyayster

Entomol Rev 46(1, JAN-MAR):111-120 REF

Mar 1967 421 R322AE

Catalogs, Coleoptera, Diptera, Field mice, Hymenoptera, Insect ecology, Siphonaptera, Surveys, Symbiosis.

14155-69

A FURTHER REPRESENTATIVE OF THE SUB-SPECIES BETULOXYNS MACKAUER (HYMENOPTERA: APHIDIINAE). (GE)

M Mackauer

Deut Entomol Ges Mitt 19(6):96-98

15 Dec 1960 420 D482

Braconidae, Hymenoptera, Insect identification, Taxonomy, Trioxys.

14156-69

ON THE DIAGNOSTICS OF CERTAIN SPECIES OF SPRINGTAILS OF THE GENERA FOLSOMIA WILLEM AND PSEUDOFOLSOMIA GEN. NOV. (COLLEMBOLA, ISOTOMIDAE) RECORDED IN THE MIDDLE VOLGA REGION.

Ye F Martynova

Entomol Rev 46(4, OCT-DEC):501-504

Dec 1967 421 R322AE

Catalogs, Insect taxonomy, Isotomidae. Russian journal pp. 845-849

14157-69

CONTRIBUTIONS TO THE KNOWLEDGE OF THE HELEIDE FAUNA (DIPT. NEMAT.) OF BERLIN. (GE)

U V Neindorff

Deut Entomol Ges Mitt 18(2):31-35

15 Apr 1959 420 D482

Attraenants, Ceratopogonidae, Diptera, Foreipomyia, Light traps, Parasitism, Research, Taxonomy, Zoogeography.

14158-69

A NEW SPECIES OF ACMAEODERA (COLEOPTERA, BUPRESTIDAE).

G H Nelson

Coleopt Bull 21(2):57-58

Jun 1967 421 C674

Buprestidae, Ceanothus, Cuticle, Insect identification, Insect taxonomy, Research.

14159-69

THE INDO-AUSTRALIAN SPECIES OF THE ULTR-GROUP OF APANTELES FORSTER (HYMENOPTERA: BRACONIDAE).

G E J Nixon

Brit Mus (natur Hist) Entomol Bull Suppl

21(1):3-34 REF

1967 420 B773

Braconidae, Catalogs, Insect taxonomy, Zoogeography.

14160-69

THE RHAPHIDOPHORIDAE (ORTHOPTERA) OF AUSTRALIA. PART 7. PALLIDOTETIX, A NEW GENUS FROM THE NULARBOR PLAIN, SOUTH-WESTERN AUSTRALIA.

A M Riehards

Linnean Soc New South Wales Proc 93(416, PT

1):46-51 MAP

19 Nov 1968 514 SY2

Insect taxonomy, Orthoptera, Zoogeography.

14161-69

A NEW SPECIES OF TERTIARY WATER BUG FROM THE BECHLEJOVICE DIATOMITES (HETEROPTERA, BELOSTOMATIDAE). (GE)

P Riha J Kukalova

Acta Ent Bohemoslov 64(4):259-260

20 Jul 1967 420 C33

Belostomatidae, Insect taxonomy, Paleoentomology, Tertiary period. English and Czech abstracts

14162-69

PHYCITINAE FROM TURKEY AND GREECE (LEP., PYRALIDAE). (GE)

U Roesler

Entomol Z 79(18):197-210

15 Sep 1969 421 EN85

Phycitidae, Surveys, Zoogeography.

14163-69

IDENTITY OF INSTARS OF APTEROUS VIVIPARAE OF RHOPALOSIPHUM FITCHII (SANDERSON) AND TOXOPTERA GRAMINUM (RONDANI), (APHIDIDAE, HOMOPTERA).

D L Sana J T Schulz

Pakistan J Sci Res 19(2-3, APR-JUL):108-112

Jul 1967 475 P173

Aphididae, Insect identification, Insect taxonomy, Larvae, Rhopalosiphum fitchii, Toxoptera graminum, Viviparity.

14164-69

RHYPAROCHROMINAE TYPES IN THE BRITISH MUSEUM (NATURAL HISTORY) (HEMIPTERA: LYGAEIDAE).

G G E Scudder

Brit Mus (natur Hist) Entomol Bull Suppl

20(6):253-285

1967 420 B773

Catalogs, Insect taxonomy, Lygaeidae, Museums.

14165-69

IDENTIFICATION LIST. 5. (FR)

Entomophaga 8(4):335-373

1963 421 EN835

Diptera, Hymenoptera, Insect pests, Parasitic insects. Host/parasite and parasite host lists.

14166-69

COMMUNICATION REGARDING THE EXISTENCE OF CIDARIA (SUBGEN. CALOSTIGIA) MULTISTRIGARIA HW. ON THE KAISERSTUHL MOUNTAIN IN BADEN.

L Settele

Entomol Gesell Basel 14(6, NOV-DEC):162

Dec 1964 QL461.E58

Breeding, Butterflies, Caterpillars, Food, Galium, Insect taxonomy, Salix caprea.

14167-69

A NEW SPECIES OF THE GENUS HETEROTHOPS STEPH. FROM CZECHOSLOVAKIA (COL., STAPHYLINIDAE). (GE)

A Smetana

Acta Ent Bohemoslov 64(6):466-471 REF

20 Nov 1967 420 C33

Insect taxonomy, Staphylinidae, Zoogeography.

English and Czech abstracts

14168-69

A SECOND CEPHALOTHIRIPS SPECIE IN GERMANY (INS., THYSANOPTERA, PHLAEOTHRIPIDAE). (GE)

R Z Strassen

Senckenb Biol 48(5-6):357-359

22 Dec 1967 410.9 SES

Insect taxonomy, Phlaeothripidae.

14169-69

CONTRIBUTION TO THE FAUNA OF THE CONGO (BRAZZAVILLE). MISSION A. VILLIERS AND A. DESCARPENTRIES. XLVII. HOMOPTERA CERCOPIDAE AND FULGOROIDEA. (FR)

H Synave

Inst Fondamental Afr Noire Bull Ser A Sci Natur

9(1):347-369

Jan 1967 515 D14
Catalogs, Cercopidae, Homoptera, Insect taxonomy, Zoogeography.

14170-69
A COMPARATIVE STUDY OF GASTRIC CAECA IN ADULT AND LARVAL STAGES OF BARK BEETLES (COLEOPTERA: SCOLYTIDAE).
J B Thomas
Entomol Soc Ontario Proc 97:71-90
1966 420 ON8
Insect anatomy, Insect behavior, Insect histology, Insect names, Larvac, Metanastes vulgivagus, Research, Taxonomy.

14171-69
CONIOPTERYX REMOTA BANKS, FURTHER DESCRIPTION AND LECTOTYPE DESIGNATION (NEUROPTERA, CONIOPTERYGIDAE).
B Tjeder
Opusc Entomol 33(1-2):155-156
1968 421 OP7
Borneo, Coniopterygidae, Indonesia, Insect taxonomy, Zoogeography.

14172-69
ENDOPHYTUS ANEMONES (HERING) IN FINLAND (HYM., TENTHREDINIDAE).
V Vikberg
Suomen Hyönteistieteellinen Aikakauskir Ann Entomol Fenn 33(4):265-268 REF
20 Dec 1967 421 SU7
Tenthredinidae, Zoogeography.

14173-69
WHAT IS DASYSCYTUS SORDIDUS FIEBER 1864 (HEM. HET. MIRIDAE). (GE)
E Wagner
Deut Entomol Ges Mitt 19(6):98-101
15 Dec 1960 420 D482
Hemiptera, Heteroptera, Insect identification, Insect taxonomy, Miridae.

14174-69
REMARKS CONCERNING SOME SPECIES OF SPIDER WASPS (HYM. POMPILOIDAE)(2.). (GE)
H Wolf
Deut Entomol Ges Mitt 19(3):46-51 REF
15 Jun 1960 420 D482
Hymenoptera, Insect identification, Pompilidae, Taxonomy.

14175-69
REMARKS CONCERNING SOME SPECIES OF WASPS (HYM. POMPILOIDAE (3.). (GE)
H Wolf
Deut Entomol Ges Mitt 20(2):27-32
15 Apr 1961 420 D482
Hymenoptera, Insect identification, Pompilidae, Taxonomy.

14176-69
CONCERNING SOME WEST GERMAN BEES AND DIGGER WASPS (HYM. APOIDEA, SPHECOIDEA). (GE)
H Wolf
Deut Entomol Ges Mitt 18(1):11-16 REF
15 Feb 1959 420 D482
Apoidea, Bees, Hymenoptera, Sphecidae, Taxonomy, Zoogeography.

PHYSIOLOGY AND BIOCHEMISTRY

14177-69
SLEEP IN MOTHS AND ITS DEPENDENCE ON THE FREQUENCY OF STIMULATION IN ANAGASTA KUEHNIELLA.
F S Andersen
Opusc Entomol 33(1-2):15-24
1968 421 OP7
Anagasta kuehniella, Demography, Insect migration, Insect physiology, Sleep.

14178-69
A CHANGE OF FEEDING HABIT IN ARCHIPS CERASIVORANA (FITCH) (LEPIDOPTERA, TORTRICIDAE).
C E Atwood
Entomol Soc Ontario Proc 97:115-116
1966 420 ON8
Archips cerasivoranus, Feeding, Food plants, Insect behavior, Prunus virginiana, Research.

14179-69
THE EFFECT OF SODIUM REPLACEMENT ON THE ELECTRORETINOGRAM RECORDED FROM THE COCKROACH OCCELLUS.
M W Atwood
J Insect Physiol 15(10):1887-1896 REF
Oct 1969 421 J825
Blaberus craniifer, Choline, Electron microscopy, Electroretinograms, Insect physiology, Leaves, Nerves, Ocelli, Plant cytology, Plastids, Sodium, Sucrose, Tobacco, Tobacco mosaic virus, Virus diseases (plants).

14180-69
USE OF A NON-ABSORBENT BARRIER IN REARING PUPAE.
C R B Baker
Entomologist (London) 102(1269):39
Feb 1969 421 EN8
Arctiidae, Humidity, Insect rearing equipment, Mortality.
A non-absorbent material is described for use in rearing Spilosoma lubricipeda and S. lutea. The material decreased the mortality of pupae by maintaining a constant humidity over a six month storage period.

14181-69
ULTRASTRUCTURAL MODIFICATIONS OF THE SECRETION CELLS OF THE PROTHORACIC GLAND TO THEMSELVES DURING THE LAST TWO LARVAL STAGES. I. THE CHONDRIOSOME, AND ITS RELATIONSHIP WITH THE GRANULAR RETICULUM. (FR)
J A Beaulaton
J Cell Biol 39(3):501-525 REF
Dec 1968 442.8 J828
Bombyx mori, Cytology, Deoxyribonucleic acid, Glands (insects), Insect physiology, Mitochondria, English abstract

14182-69
CONTINUOUS AND RHYTHMIC REPRODUCTIVE CYCLE OBSERVED IN PERIPLANETA AMERICANA (L.).
W J Bell
Biol Bull 137(2):239-249 REF
Oct 1969 442.8 B52
Electrophoresis, Insect biochemistry, Insect biology, Oogenesis, Periplaneta americana, Proteins, Reproduction.

14183-69
DESIGN AND MAINTENANCE OF BEEHIVES.
F S Benecke
Ag Gaz New S Wales 78(PT 4):214-220
Apr 1967 23 N472
Apiaries, Apiculture, Construction materials.

14184-69
ELECTRON MICROSCOPY OF SPINDLE-SHAPED INCLUSION VIRUSES OF COLEOPTERA. (FR)
M Bergoin G Devauchelle J-L Duthoit C Vago
Acad Sci Compt Rend Ser D Sci Nat 266(20, 1ST SEMESTER):2126-2128 REF
13 May 1968 505 P21
Coleoptera, Electron microscopy, Insect diseases, Scarabaeidae, Viruses.

14185-69
DNA-MEASUREMENTS IN INSECTS AND A HYPOTHESIS CONCERNING RETARDED EVOLUTION AND ESPECIALLY HIGH DNA CONTENT IN THE ANIMAL KINGDOM. (GER)
K Bier W Müller
Biol Zentralbl 88(4, JUL-AUG):425-449 REF

Aug 1969 442.8 B523
Animals, Deoxyribonucleic acid, Disease transmission, Evolution, Insect biochemistry, Insect physiology, Insect vectors, Onchocerciasis, Physiology, Simulium damnosum, Spectrophotometry.

14186-69
AZIRIDINYL CHEMOSTERILANTS FOR HOUSE FLIES.
A B Borkovec R L Fye G C LaBrecque
USDA Prod Res Rep (129):60P REF
Oct 1968 A281.9 AG8
Biological control (insects), Chemical control (insects), Chemical reactions, Chemosterilants, Ethylenimine, Musca domestica, Reproduction, Tables (data).

14187-69
SOME PHASE CHARACTERISTICS OF THE SOUTHERN AFRICAN FORM OF THE DESERT LOCUST (SCHISTOCERCA GREGARIA (FORSKAL)).
D H Botha
S Afr J Agr Sci 10(1):61-76 REF
Mar 1967 24 SU3
Insect behavior, Insect taxonomy, Schistocerca gregaria, Zoogeography.

14188-69
THE VIABILITY OF BROWN LOCUST EGGS (LOCUSTANA PARDALINA (WALKER)).
D H Botha
S Afr J Agr Sci 10(2):445-460
Jun 1967 24 SU3
Acridae, Eggs, Environment, Insect ecology, Locustana pardalina, Mortality, Population.

14189-69
INSECT VISCERAL MUSCLE: NEURAL RELATIONS OF THE PROCTODEAL MUSCLES OF THE COCKROACH.
B E Brown T Nagai
J Insect Physiol 15(10):1767-1783 REF
Oct 1969 421 J825
Bacteriology, Brucellosis, Diagnosis, Electrophysiology, Insect physiology, Methodology, Muscles, Nerves, Periplaneta americana, Serological tests, English and Spanish abstracts.

14190-69
PHYSIOLOGICAL GENETICS OF MELANOTIC TUMORS IN DROSOPHILA MELANOGASTER. VI. THE TUMORIGENIC EFFECTS OF JUVENILE HORMONE-LIKE SUBSTANCES.
P J Bryant J H Sang J Kradel
Genetics 62(2):321-336 REF
Jun 1969 442.8 G28
Chromatophores, Drosophila melanogaster, Hormones, Insect genetics, Insect physiology, Methodology, Pesticide application, Soil fumigation, Tumor cells. English abstract.

14191-69
HISTOCHEMICAL DATA ON THE CARDIAC BODIES OF ANTERAEA PERNYI GUER. (LEPIDOPTERA, ATTACIDAE) AND OF RHODNIUS PROLIXUS STAL. (HEMIPTERA, REDUVIIDAE). (FR)
M Busselle
Acad Sci Compt Rend Ser D Sci Nat 266(24, 1ST SEMESTER):2280-2282 REF
10 Jun 1968 505 P21
Anteraea pernyi, Dorsal vessel, Histochemistry, Insect physiology, Reduviidae.

14192-69
THE ULTRASTRUCTURE AND ELECTROPHYSIOLOGY OF THE MEMBRANOUS LOBE OF THE ANTENNA IN SPEOPHYES LUCIDULUS LARVAE (COLEOPTERA). (FR)
G Corbiere J Gervet
J Insect Physiol 15(10):1759-1765 REF
Oct 1969 421 J825
Antennae, Chemoreceptors, Coleoptera, Electron microscopy, Electrophysiology, Insect behavior, Insect nests, Larvae, Reproduction, Sphecidae. English abstract.

14193-69

A SEROLOGICAL COMPARISON OF SOME IRIDESCENT NON-OCCLUDED INSECT VIRUSES.

J C Cunningham T W Tinsley
J Gen Virol (3,PT 1):1-8 REF

Jul 1968 QR360.A136

Agar, Antigens, *Galleria mellonella*, Insect diseases, *Pieris brassicae*, *Porthetria dispar*, *Sericesthis* iridescent virus, Serological tests, *Tipula* iridescent virus.

14194-69

DESIGN OF HONEY HOUSES--CENTRAL AND MOBILE.

N A Cutts

Agr Gaz New S Wales 78(PT 10):570-575

Oct 1967 23 N472

Apries, Apiculture, Construction materials, Honey, Processing.

14195-69

EFFECT OF THE VENOM OF THE BLACK WIDOW SPIDER, LATRODECTUS MACTANS TREDECIMGUTTATUS, ON EVOKED ACTION POTENTIALS IN THE ISOLATED NERVE CORD OF PERIPLANETA AMERICANA.

V D'Ajello A Mauro S Bettini

Toxicon 7(2):139-144

Sep 1969 391.8 T66

Bio-electric potential, Insect physiology, *Latrodectus mactans*, Methodology, Nerves, *Periplaneta americana*, Pesticide application, Soil fumigation, Venoms. English abstract.

14196-69

ESSENTIALS IN PEST CONTROL.

B Y Deshpande

Pesticides 1(9):17-18

May 1968 SB951.P43

Agricultural education, Ecology, Insect biology, Insect pests, Insecticides, Livestock, Medical entomology, Plant pest control.

14197-69

INSECT HORMONES: OLIVE OIL IS NOT AN INERT VEHICLE FOR HORMONE INJECTION INTO LOCUSTS.

P E Ellis D B Carlisle

Science 162(3860):1393-1394 REF

20 Dec 1968 470 SC12

Acridae, Cells, Dosage, Hormones, Injections, Insect physiology, Olive oil, Research, *Schistocerca gregaria*.

14198-69

STUDIES ON A TREHALASE FROM A Symbiont OF THE TROPICAL COCKROACH, BLABERUS CRANIFER--A SUGGESTED ANALYTICAL ENZYME.

F M Fisher R O McAlister

Biol Bull 137(2):265-276 REF

Oct 1969 442.8 B52

Blaberus craniifer, Enzymes, Insect biochemistry, Proteins, Trehalase.

14199-69

DEVELOPMENT AND DIAPAUSE IN INSECTS. (JA)

M Fukaya

Kontyu 35(3):221-230 REF

Sep 1967 421 K833

Deoxyribonucleic acid, Hormones, Insect genetics, Insect morphology, Insect physiology, Metamorphosis, Ribonucleic acid.

14200-69

EXPERIMENTS ON NUCLEAR TRANSPLANTATION IN DROSOPHILA MELANOGASTER. PRELIMINARY REPORT.

I Gycer-Duszynska

Rev Suisse Zool 74(3):614-615

Dec 1967 410 R324

Cell nucleus, *Drosophila melanogaster*, Insect cytology, Larvae.

14201-69

QUANTITATIVE ASPECTS OF INSECT NUTRITION.

H T Gordon

Amer Zool 8(1):131-138 REF

Feb 1968 410 AM3

Bioenergetics, Food consumption, Insect metabolism, Insect nutrition, Quantitative analysis.

The small size of insects is correlated with food consumption, growth and metabolic rates. Their high metabolic efficiency, short life cycle, high metabolic potential and rapid genetic adaptation and speciation is discussed.

14202-69

PLICTRAN MITICIDE-NEW APPROACH TO MITE CONTROL.

H E Gray

Down Earth 23(4):3-5 SPRING

1968 381 D75

Acaricides, Chemical control (insects), Economics, Mites, Pesticide residues, Plants, Soils, Toxicology, Trichloroethylhydroxytin.

14203-69

EPIZOIC SYMBIOSIS.

J L Gressitt

Entomol News (Philadelphia) 80(1):1-5

Jan 1969 421 EN88

Algae, Forests, Fungi, Habitats, Insect ecology, Lichenes, Rhynchophora, Symbiosis.

Symbiotic associations among cryptographic plants, orbatic mites, rotifers, nematodes and microorganisms living together on the backs of beetles, primarily weevils, from New Guinea are discussed ecologically. The relationship of high altitude and humidity and modifications of the hosts are reviewed.

14204-69

HILARIA SARTOR BECKER, THE FLY WITH THE LITTLE VEIL AND ITS DANCE (DIP-TERA). (GE)

K Gruhl

Deut Entomol Ges Mitt 21(3):43-46 REF

15 Jun 1962 420 D482

Anatomy, Diptera, *Hilaria*, Insect behavior, Physiology. Second continuation and conclusion from vol. 21 no. 1 and 2.

14205-69

HILARIA SARTOR BECKER, THE FLY WITH THE LITTLE VEIL AND ITS DANCE (DIP-TERA). (GE)

K Gruhl

Deut Entomol Ges Mitt 21(1):8-12

15 Feb 1962 420 D482

Anatomy, Diptera, *Hilaria*, Insect behavior, Physiology. To be continued

14206-69

ON THE CROSS-INOCULATION OF CHILO IRIDESCENT VIRUS. CIV. (JAP)

H Hama

Jap J Appl Entomol Zool 12(1):34-39 REF

Mar 1968 475 J27

Chilo iridescent virus, *Chilo suppressalis*, *Dendrolimus spectabilis*, *Galleria mellonella*, Immunization, Insect diseases, Insect histology, Larvae, *Pieris rapae* crucivora, Viruses. English summary

14207-69

ULTRASTRUCTURE OF THE ILEUM OF THE EUROPEAN CORN BORER, OSTRINIA NUBILALIS.

M Hassemer S D Beck M Sugawara D Murayama

J Insect Physiol 15(10):1791-1802

Oct 1969 421 J825

Electron microscopy, Gastrointestinal system, Insect physiology, Leaf roll, *Ostrinia nubilalis*, Potatoes, Virus diseases (plants), Virus purification.

14208-69

RADIATION SENSITIVITY OF DROSOPHILA EMBRYOS IN RELATION TO AGE, IN AIR AND IN NITROGEN.

E Havin P Oftedal

Int J Radiat Biol 14(2):149-160 REF

16 Oct 1968 444.8 IN8

Aging, Air, *Drosophila melanogaster*, Eggs, Nitrogen, X-rays.

14209-69

A STUDY OF FREE AMINO ACIDS IN RICE MOTH LARVAE DURING MYCOTOXICOSIS.

U C Hedge E R B Shanmugasundaram

Can J Comp Med Vet Sci 32(1):392-394 REF

Jan 1968 41.8 C162

Aflatoxicosis, Amino acids, *Aspergillus flavus*, Insect biochemistry, Insect physiology, Larvae, Moths, Mycotoxicosis.

Abstract: There is an increase in free amino acids in intoxicated larvae and this was directly proportional to the degree of toxicity as indicated by decrease in growth of these larvae. The study of excretory pattern of amino acids show intoxicated larvae excrete less amino acids than normal larvae.

14210-69

INSECTS VS MAN. (LEP. NOTODONTIDAE).

G A Nelson

New Zeal J Agr 119(3):41-43

Sep 1969 23 N48J

Chemical control (insects), Classification, Crop losses, Insect ecology, Insect pests, Insect physiology, Larvae, Notodontidae, Plant geography, Surveys.

14211-69

A TROGLOBITIC STAPHYLINID FROM MEXICO (COLEOPTERA, STAPHYLINIDAE, PAEDERINAE).

L J Herman

Amer Mus Novitates (2367):1-9

24 Apr 1969 500 N48N

Insect ecology, Insect taxonomy, Staphylinidae.

14212-69

PROPERTIES OF LEPTINOTARSIN, A TOXIC HEMOLYMPH PROTEIN FROM THE COLORADO POTATO BEETLE.

T H Hsiao G Fraenkel

Toxicon 7(2):119-130 REF

Sep 1969 391.8 T66

Botrytis cinerea, Chemical analysis, Copper oxychloride, Grapic vineyards, Hemolymph, Insect biochemistry, Leptinotarsa decemlineata, *Musca domestica*, Proteins, Spraying equipment, Toxicology, Toxins. English abstract.

14213-69

ADENINE AND RELATED SUBSTANCES AS POTENT FEEDING STIMULANTS FOR THE ALFALFA WEEVIL, HYPERA POSTICA.

T H Hsiao J Gammel E Jean J Kissel C Royer

J Insect Physiol 15(10):1785-1790 REF

Oct 1969 421 J825

Adenine, Alfalfa, Animal physiology, Cattle, Diagnosis, Feeding, *Hypera postica*, Insect behavior, Plant extracts, Rabies, Stimulants, Virus diseases (animals).

14214-69

THE PHEROMONE OF THE QUEEN OF THE ORIENTAL HORNET, VESPA ORIENTALIS.

R Ikan R Gottlieb E D Bergmann J Ishay

J Insect Physiol 15(10):1709-1712 REF

Oct 1969 421 J825

Chemical analysis, Chromatography, Hydrolysis, Insect biochemistry, Mass spectra, *Myzus ascalonicus*, Pheromones, Population, Secretions, Strawberries, Temperature, *Vespa orientalis*.

14215-69

DD-136: THE WORM THAT MAKES SHORT WORK OF INSECT PESTS.

Indian Farming 16(8):22-23

Nov 1966 22 IN283

Biological control (insects), Nematodes, Rearing.

14216-69
ISOLATION OF VIRUSES OF THE CALIFORNIA ENCEPHALITIS VIRUS GROUP FROM BOREAL AEDES MOSQUITOES.

J Iversen R P Hanson O Papadopoulos C V
Morris G R DeFoliart 6
Amer J Trop Med Hyg 18(5):735-742 MAP REF
448.8 AM326

Aedes communis, Aedes stimulans, California encephalitis virus, Insect vectors, Viruses.

14217-69

THE PHOTOTACTIC PUSH-PULL-COUPING BETWEEN DORSAL OCELLI AND COMPOUND EYES IN THE PHOTOTROPOTAXIS OF LOCUSTS AND CRICKETS (SALTATORA: LUCUSTA MIGRATORIA AND GRYLLUS BIMACULATUS). (GER)

R Jander C K Barry
Z Vergleichende Physiol 57(4):432-458 REF
1968 444.8 Z3

Eyes, Grasshoppers, Gryllus bimaculatus, Insect physiology, Locusta migratoria, Ocelli, Phototropism. English summary

14218-69

THE EFFECTS OF LIGATURING GALLERIA MELLONELLA LARVAE ON TOTAL HAEMOCYTE COUNTS AND ON MITOTIC INDICES AMONG HAEOMOCYTES.

J C Jones D P Liu
J Insect Physiol 15(10):1703-1708
Oct 1969 421 J825

Barley, Blood cells, Erysiphe graminis, Fungus diseases (plants), Galleria mellonella, Genes, Insect physiology, Larvae, Mitosis, Plant disease resistance, Plant physiology, Powdery mildew, Structures.

14219-69

CYTOLOGY AND CYTOCHEMISTRY OF SPERMATOGENESIS IN TWO MILLIPEDES PHYLLOGONOSTREPTUS NIGROLABIATUS AND GONOPLECTUS MALAYAS.

N R Kalla J A W Lucas
Cytologia 34(1):80-89 REF
Mar 1969 44.8 C99

Diplopoda, Insect biochemistry, Insect taxonomy, Photomicrography, Spermatogenesis, Surveys, Syrphidae.

14220-69

FIELD STUDIES ON THE LIFE-HISTORIES OF SOME BRITISH STAPHYLINIDAE (COLEOPTERA).

F K Kasule
Soc Brit Entomol Trans 18(PT. 4):49-80 REF
Dec 1968 420 SO15

Demography, Insect behavior, Life cycle, Seasonal variation, Staphylinidae.

14221-69

CATERPILLAR POLYMORPHISM OF PER-
GEA ELPENOR L. (GE)

K Kernbach
Deut Entomol Ges Mitt 18(3):49-51
15 Jun 1959 420 D482

Caterpillars, Environment, Insect morphology, Larvae, Polymorphism, Temperature.

14222-69

HAWK MOTHS WITH MITES. (LEP. SPHIN-
GIDAE). (GE)

K Kernbach
Deut Entomol Ges Mitt 21(5-6):68
15 Nov 1962 420 D482

Insect behavior, Lepidoptera, Mites, Moths, Parasitism, Sphingidae.

14223-69

THE ABILITY OF COLOUR DISTINCTION IN THE WOOD-ANT FORMICA POLYCTENA FORSTER. (GER)

J Kieperheuer
Z Vergleichende Physiol 57(4):409-411
1968 444.8 Z3

Color, Formica polyctena, Insect behavior, Insect cultures, Light, Vision. English summary

14224-69

PARASITIZATION OF SOCIAL HALICTINE BEES IN SOUTHERN ONTARIO.

G Knerer C E Atwood
Entomol Soc Ontario Proc 97:103-110 REF
1966 420 ON8

Bees, Insect behavior, Insect names, Parasitism, Population, Research, Statistical analysis.

14225-69

DAWN AND DUSK ACTIVITY PERIODS AND ORIENTATION TO FOREST AND FIELD OF THE DROSOPHILA SUBOBSCURA AND DROSOPHILA OBSCURA. (GE)

R Koch
Z Vergleichende Physiol 54(3):353-394 REF
1967 444.8 Z3

Drosophila obscura, Drosophila subobscura, Forest insects, Insect behavior, Insect cultures, Insect ecology, Land, Photoperiodism. English summary

14226-69

ARBOVIRUS STUDIES IN THE OHIO-MISSISSIPPI BASIN, 1964-1967. IV. CACHE VALLEY VIRUS.

R H Kokernot J Hayes C H Tempelis D H M
Chan K R Boyd Et Al

Amer J Trop Med Hyg 18(5):768-773 REF
Sep 1969 448.8 AM326

Anopheles quadrimaculatus, Antibodies, Arboviruses, Cattle, Surveys.

14227-69

ARBOVIRUS STUDIES IN THE OHIO-MISSISSIPPI BASIN, 1964-1967. III. FLANDERS VIRUS.

R H Kokernot J Hayes R L Will B Radivojevic K
R Boyd Et Al

Amer J Trop Med Hyg 18(5):762-767

Sep 1969 448.8 AM326
Animal disease transmission, Arboviruses, Culex restuans.

14228-69

MATING AND OVARY STUDIES ON CERAPTERYX GRAMMIS L. (LEP. NOCTUIDAE), COLLECTED FROM A LIGHT TRAP.

O Kugelberg
Opusc Entomol 33(1-2):107-110 REF
1968 421 OP7

Insect behavior, Insect ecology, Noctuidae, Ovaries, Sex behavior.

14229-69

OBSERVATIONS ON THE OVULATION AND OVIPOSITION WITH REFERENCE TO CORPUS LUTEUM FORMATION IN MUSCA DOMESTICA NEBULO FABR. (MUSCIDAE: DIPTERA).

S K Kulshrestha
Ann Mag Natur Hist 3(4, OCT-DEC):561-570
REF

Dec 1969 410 AN77
Corpus luteum, Curculionidae, Insect eggs, Insect histology, Insect physiology, Musca domestica, Oviposition, Ovulation.

14230-69

STRUCTURAL PECULIARITIES OF THE MOUTH PARTS IN CERTAIN GAMASID MITES (PARASITIFORMES, GAMASOIDEA) IN RELATION TO THEIR TRANSITION TO HEMATOPHAGY.

Yu P Lagutenko
Entomol Rev 46(4, OCT-DEC):461-466 REF
Dec 1967 421 R322AE

Insect evolution, Insect morphology, Mites, Mouth. Russian journal pp. 784-792

14231-69

KEY TO THE ADULT HYMENOPTEROUS PARASITES OF PULICALVARIA PICEAELLA (KEARFOOT), (LEPIDOPTERA: GELICHIIDAE) OF QUEBEC. (FR)

J P Laplante
Entomol Soc Quebec Ann 12(3):137-165 REF
Sep 1967 420 EN822

Glechiidae, Hymenoptera, Lepidoptera, Parasitic insects, Pulicalvaria, Zoogeography.

14232-69

ARTIFICIAL STIMULATIONS IN ENCOUNTER BEHAVIOR OF VESTRIA VIRIDIS (REDT.) (ORTHOPTERA TETTIGONIDAE COPIPHORINAE DE LA TRINITE). (FR)

Y Leroy
Acad Sci Compt Rend Ser D Sci Nat 266(17, 1ST SEMESTER):1761-1763

22 Apr 1968 505 P21
Insect behavior, Tettigoniidae.

14233-69

THE MANDIBLES OF TWO SOUTH AMERICAN GRASSHOPPERS. (SP)

J Liebermann
Rev Invest Agr Ser 5, Patol Veg 5(5):53-62
1968 464.8 R322

Acrididae, Food habits, Insect morphology, Mouth parts, South America. English abstract

14234-69

PRELIMINARY REPORT ABOUT MY BREEDING ATTEMPTS WITH MICROPTERYX CALTHILLA L. (LEP., MICR.). (GE)

R E Lorenz
Deut Entomol Ges Mitt 18(3):42-45
15 Jun 1959 420 D482

Breeding, Food plants, Insect behavior, Lepidoptera, Micropterygidae, Reports.

14235-69

OBSERVATIONS ON WOOD-DESTROYING INSECT LIVING IN THE FOOTBRIDGE OVER SIIKANEVA BOG.

K Loytyniemi
Suomen Hyönteistieteellinen Aikakauskir Ann Entomol Fenn 33(4):260-264
20 Dec 1967 421 SU7

Bogs, Cerambycidae, Insect ecology, Tragosoma depsarium, Wood-destroying insects.

14236-69

HORMONAL CONTROL OF IMAGINAL DISC REGENERATION IN GALLERIA MELLONELLA (LEPIDOPTERA).

K Madhavan H A Schneiderman
Biol Bull 137(2):321-331
Oct 1969 442.8 B52

Ecdysone, Galleria mellonella, Hormones, Insect physiology, Metamorphosis, Regeneration.

14237-69

A NEW METHOD OF ESTIMATING POPULATION SIZE, SURVIVORSHIP, AND BIRTH RATE FROM CAPTURE-RECAPTURE DATA.

B F J Manly M J Parr
Soc Brit Entomol Trans 18(PT. 5):81-89
Dec 1968 420 SO15

Insect behavior, Longevity, Population, Statistical methods, Zygacnidae.

14238-69

SOME ASPECTS OF ADAPTATION IN THE LIFE CYCLE OF INSECTS. (JA)

S Masaki
Kontyu 35(3):205-220
Sep 1967 421 K833

Insect adaptation, Insect biology, Metamorphosis.

14239-69

DOES THE BEATING OF BUTTERFLY WINGS CAUSE ELECTRICAL PHENOMENA. (GE)

R McIl
Deut Entomol Ges Mitt 18(1):5-6
15 Feb 1959 420 D482

Butterflies, Electricity, Frogs, Insect behavior, Sex, Wings (insects).

14240-69

A THREE DIMENSIONAL SKETCH OF THE TUNNELS OF THE RAPIENTIA NESTS (HYM., SPHECOIDEA).

A K Merisud
Suomen Hyönteistieteellinen Aikakauskir Ann Entomol Fenn 33(3):176-180
02 Nov 1967 421 SU7

Construction materials, Hymenoptera, Illustrations, Insect ecology, Insect nests.

ENTOMOLOGY

14241-69

14241-69
ON THE LIFE CYCLE OF COELORABRO AMBIGUUS (HYM., SPHECIDAE). (GE)
A K Merisuo
Suonen Hyonteistieteellinen Aikokouskir Ann Entomol Fenn 33(2):99-101
30 Aug 1967 421 SU7
Insect ecology, Life cycle, Sphecidae.

14242-69

THE ACTION OF X-RAYS ON THE OSMOTIC PRESSURE AND THE PH OF THE HEMOLYMPH OF GALLERIA MELLONELLA L. (INSECTA LEPIDOPTERA). (FR)
G Mestres P Laviollette
Acad Sci Compt Rend Ser D Sci Nat 266(20, 1ST SEMESTER):2093-2096
13 May 1968 505 P21
Galleria mellonella, Hemolymph, Hydrogen-ion concentration, Insect physiology, Osmotic pressure, X-rays.

14243-69

HEMIANAX EPHIPPIGER (BURM.) (ODONATA) CARRIED TO ICELAND FROM THE EASTERN MEDITERRANEAN BY AN AIR-CURRENT.
K Mikkola
Opusc Entomol 33(1-2):111-113 MAP
1968 421 OP7
Air, Insect dissemination, Odonata.

14244-69

OBSERVATIONS OF THE INSECT PESTS OF THE OLD SHRINE AND THE BUDDHIST TEMPLE WOODEN BUILDINGS AND A FEW TRYPOXYLONID WASPS. (JA)
J Minamikawa

Jap J Appl Entomol Zool 12(1):45

Mar 1968 475 J27

Buildings, Hymenoptera, Insect ecology, Insect pests, Trypoxyloninae, Wood-destroying insects.

14245-69

CHARACTERISTIC ORDER OF THE FILIFORM HAIRS OF PERIPLANETA AMERICANA. (GER)
R Nicklaus

Z Vergleichende Physiol 54(3):434-437

1967 444.8 Z3

Hair, Insect physiology, Light, Microscopy, Periplaneta americana.

14246-69

FRUIT-PIERCING MOTHS AND THEIR CONTROL IN JAPAN. (JA)
K Nomura I Hattori

Kontyu 35(3):312-322

Sep 1967 421 K833

Cave fauna, Insect control, Insect ecology, Lepidoptera, Moths.

14247-69

THE DETAILS OF ENDOMITOSIS IN THE SERICEOUS GLANDS OF GALLERIA MELLONELLA (INSECTA LEPIDOPTERA). (FR)
C G Nordau

Acad Sci Compt Rend Ser D Sci Nat 266(17, 1ST SEMESTER):1749-1750

22 Apr 1968 505 P21

Cell nucleus, Cytology, Galleria mellonella, Insect physiology, Mitosis, Silk glands.

14248-69

EFFECT OF LOXOSCELES RECLUSA GERTSCH AND MULAIK VENOM ON HELIOTHIS VIRESSENS (F.) LARVAE. OOSTERHOF, G.
B R Norment S B Vinson

Toxicon 7(2):99-101

Sep 1969 391.8 T66

Dichlobenil, Heliothis virescens, Hemolymph, Hericide application, Insect biochemistry, Larvae, Lipids, Loxosceles reclusa, Methodology, Muscles, Proteins, Venoms. English abstract.

BIBLIOGRAPHY

14249-69

THE FLIGHT ACTIVITY OF THE PIGMY-MANGOLD CHAFER ATOMARIA LINEARIS STEPH. IN THE COURSE OF 24 HOURS. (COL., CRYPTOPHAGIDAE). (GE)
I Novak
Acta Ent Bohemoslov 64(4):294-302 REF
20 Jul 1967 420 C33
Cryptophagidae, Insect behavior, Insect flight. English and Czech abstracts

14250-69

ECDSONE AND DNA SYNTHESIS IN CULTURED WING DISKS OF THE WAX MOTH, GALLERIA MELLONELLA.
H Oberlander R I B Franck
J Insect Physiol 15(10):1803-1806
Oct 1969 421 J825
Deoxyribonucleic acid, Ecdysone, Electron microscopy, Galleria mellonella, Insect biochemistry, Ribonucleic acid, Ring spot, Staining, Synthesis, Tissue culture, Tobacco, Virus diseases (plants).

14251-69

STUDY ON THE DENSITY OF THE ADULT OF THE BROWN PLANTHOPPER NILAPARVATA LUGENS STAL.
N Ohkubo
Jap J Ecol 17(6):230-233
Dec 1967 410 J272
Eggs, Imagoes, Insect dissemination, Insect physiology, Nilaparvata lugens, Ovipositors, Population, Wings (insects). English summary

14252-69

A CORRELATION BETWEEN THE ABILITY TO WITHSTAND HIGH TEMPERATURES AND RADIRESISTANCE IN DROSOPHILA MELANOGASTER.
P A Parsons

Experientia 25(9):1000-1001 REF

15 Sep 1969 475 EX7

Cobalt, Drosophila melanogaster, Insect physiology, Irradiation, Radiobiology, Temperature.

14253-69

OVIPosition SITES AND THE VIABILITY OF EGGS OF THYMICELUS LINEOLA (OCHS.) (LEPIDOPTERA: HESPERIIDAE).
D H Pengelly

Entomol Soc Ontario Proc 95:102-105

1966 420 ON8

Eggs, Habitats, Insect control, Morphology, Ovipositors, Research, Thymelicus lineola.

14254-69

SPECIAL FORMS OF AMITOTIC NUCLEAR DIVISION IN STRIATED MUSCLE AND OTHER INSECT TISSUES.
T P Pessacq

Experientia 25(9):977-978

15 Sep 1969 475 EX7

Amitosis, Cell nucleus, Coleoptera, Diptera, Hymenoptera, Insect physiology, Lepidoptera, Muscles.

14255-69

EXCEPTIONS TO THE PREVAILING PATTERN OF TUBULES (9 PLUS 9 PLUS 2) IN THE SPERM FLAGELLA OF CERTAIN INSECT SPECIES.
D M Phillips

J Cell Biol 40(1):28-43 REF

Jan 1969 442.8 J828

Ctenocephalides, Flagella, Insect histology, Psocidae, Spermatozoa.

14256-69

DIAPAUSE IN THE NEUROPTERAN CHRYSOPA OCULATA. BY ULTRACENTRIFUGATION AND IDENTIFICATION OF N- AND CTERMINAL ENDS.
G D Propst M J Tauber C A Tauber

J Insect Physiol 15(10):1749-1757 REF

Oct 1969 421 J825

Bacillus thuringiensis, Bacteriology, Biochemistry, Centrifuges, Chrysopa, Insect physiology, Larvae, Light, Temperature.

14257-69

SPERM ACTIVATION AND MIGRATION IN BED BUGS. SIZE IN HYPERSENSITIVE HOSTS IN THE PRESENCE OF CHLORAMPHENICOL.
H V Rad N T Davis T Van Praagh
J Insect Physiol 15(10):1815-1832 REF
Oct 1969 421 J825
Chloramphenicol, Cimex lectularius, Hydrogen-ion concentration, Hypersensitivity, Insect behavior, Insect biochemistry, Reproduction, Spermatozoa, Tobacco, Tobacco mosaic virus, Virus diseases (plants).

14258-69

BRAIN INTERNEURONS IN NOCTUID MOTHS: DIFFERENTIAL SUPPRESSION BY HIGH SOUND INTENSITIES. AND GRASSES.
K D Roeder P A Burgess

J Insect Physiol 15(10):1713-1718

Oct 1969 421 J825

Avena sativa, Brain, Bromus, Cephalosporium gramineum, Dactylis glomerata, Fungus diseases (plants), Grain, Grasses, Heliociths zea, Insect physiology, Nerves, Noctuidae, Sound waves, Stripe.

14259-69

OBSERVATIONS ON THE DIAPAUSAL AND POST-DIAPAUSAL, PROTERANDRIC DEVELOPMENTAL EVENTS IN CATERPILLARS OF SPARGANOTHIS PILLERIANA SCHIFF. (LEPIDOPTERA: TORTRICIDAE). (GE)
K Russ

Pflanzenschutzberichte 38(5/7):57-68

Jul 1968 464.9 P48

Feeding, Insect morphology, Measurement, Metamorphosis, Research, Tortricidae. English summary.

14260-69

PERSISTENT TOXICITY OF SOME SYSTEMIC INSECTICIDES TO LITTLE HONEY BEES.
M L Saini A D Khurana

Pesticides 1(7):24-25

Mar 1968 SB951.P43

Apis, Chemical control (insects), Dimethoate, Menazon, Phosphamidon, Poisoning, Systemic insecticides, Toxicology.

14261-69

HYDROLYSIS OF ACETYLTHIOCHOLINE AND BUTYRYLTHIOCHOLINE BY CHOLINESTERASES OF INSECTS AND A NITE.
M Sakai

Appl Entomol Zool 2(2):111-112

Jun 1967 SB599.A6

Acetylcholinesterases, Biochemistry, Cholinesterases, Colorimetry, Hydrolysis, Insects, Mites, Research, Substrates, Temperature.

14262-69

TENSION TRANSIENTS IN GLYCEROL-EXTRACTED FIBRES OF INSECT FIBRILLAR MUSCLE (LETHOCERUS MAXIMUS).
M Schadler G Steiger J C Ruegg

Experientia 25(9):942-943 REF

15 Sep 1969 475 EX7

Insect physiology, Lethocerus maximus, Muscles, Temperature, Tension.

14263-69

BLOSSOM VISITATIONS OF DOMESTIC ALIANTUS SPECIES, AND PLACES WHERE THEY ARE FOUND. (GE)
E Schmidt

Deut Entomol Ges Mitt 18(5):72-73

15 Oct 1959 420 D482

Flowers, Insect behavior, Tenthredinidae, Zoogeography.

14264-69

THE MODE OF LIFE OF THE BORER MOTH PARASITE ADELIUS ERYTHRONOTUS FORST. (HYM., BRAC.). (GE)
J Schoenherr

Deut Entomol Ges Mitt 18(6):99-101

15 Dec 1959 420 D482

BIBLIOGRAPHY

ENTOMOLOGY

14287-69

Braconidae, Food plants, Hymenoptera, Insect behavior, Parasitism.

14265-69

BODY CONSTRAINT AND DEVELOPMENTAL ARREST IN *GALLERIA MELLONELLA* L.: FURTHER STUDIES.

F Sehnal J S Edwards

Biol Bull 137(2):352-358 REF

Oct 1969 442.8 B52

Galleria mellonella, Glands (insects), Hormones, Insect physiology, Metamorphosis, Neuroendocrinics, Restraining table.

14266-69

NATURAL MORTALITY OF OVERWINTERING EGGS OF *LONGIUNGUIS DONACIS* (PASS.). (FR)

M L Sharma

Entomol Soc Quebec Ann 12(3):133-136

Sep 1967 420 EN822

Aphididae, *Aspergillus flavus*, Entomogenous fungi, Hibernation, Insect biology, Insect diseases, Insect eggs, *Longiunguis donacis*, Mortality, Temperature. Abstract in English

14267-69

BRACHYMERIA FEMORATA PANZER (HYMENOPTERA CHALCIDIDAE). (GE)

H R Simon

Deut Entomol Ges Mitt 18(5):82-83

15 Oct 1959 420 D482

Chalcididae, Hymenoptera, Insect behavior, Larvae, Parasitism, Snails, Zoogeography.

14268-69

ENHANCEMENT OF INFECTIVITY OF A MAMMALIAN VIRUS PREPARATION AFTER INJECTION INTO INSECTS.

R S Spedding R F Whitcomb D D Jensen

Virology 34(1):182-184

Jan 1968 448.8 V81

Agallia constricta, *Colladonus montanus*, Injections, Insects, Mammals, Physiology, Virus diseases (animals), Wound-tumor virus.

14269-69

FATTY ACIDS, ALCOHOLS AND HYDROCARBONS IN THE WAXY COVERING OF CEROPLASTES PSEUDOCERIFERUS GREEN, CEROPLASTES JAPONICUS GREEN AND CEROPLASTES RUBENS MASKELL (HOMOPTERA: COCCIDAE). (JAP)

Y Tamaki S Kawai

Jap J Appl Entomol Zool 12(1):23-28

Mar 1968 475 J27

Alcohols, Biochemistry, *Ceroplastes japonicus*, *Ceroplastes pseudoceriferus*, *Ceroplastes rubens*, *Coccidae*, Fatty acids, Glands (insects), Hydrocarbons, Insect biochemistry, Wax glands.

14270-69

A NEW CONTRIBUTION TO THE STUDY OF LEAFHOPPER FAUNA (HOMOPTERA, AUCHENORRHYNCHA). (CZ)

N Tanasijevic

Zastita Bilja 12(91-92):205-212, REF

1966 446.8 Z1

Cicadellidae, Corn, Economic plants, Homoptera, Insect ecology, Potatoes, *Psammotettix*, Sugar beets, Sunflowers, Weeds. English summary

14271-69

TRENDS IN STUDIES ON INSECT NATURAL ENEMIES AND THE FUTURE PROBLEMS CONCERNED. (JA)

T Torii

Kontyu 35(3):278-289

Sep 1967 421 K833

Chemical control (insects), Insect ecology, Integrated control (insects), Natural control (insects), Pesticides.

14272-69

DETAILS ON THE CODLING PLUM MOTH (*LASPEYRESIA FUNEBRANA* TR.) IN LOT-ET-GARONNE ON PLUM-TREE GRAFTS. (FR)

J Touzeau

Rev Zool Agr Appl 66(4-6, 2ND TRIMESTER):49-57

1967 410.9 SO12

Laspeyresia, Life cycle, Olethreutidae, Seasonal variation.

14273-69

A STUDY OF THE APPEARANCE OF THE CLEONUS OF BEETS, *TEMNORRHINUS (CLEONUS) MENDICUS* GYLL. (IT)

V Tullio D Ponis G Svampa

Giornate Fitopatol 33-338

26 Mar 1967 SB599.65

Beets, *Conorhynchus mendicus*, Curculionidae, Insect pests, Insect traps.

14274-69

DIVERSITY OF FORMS OF PHYSIOLOGICAL REST IN INSECTS AS ONE OF THE CAUSES OF THEIR BIOLOGICAL PROGRESS.

R S Ushatinskaya

Ann Zool 5(3):19-30 REF

07 Mar 1966 410 AN78

Diapause, Insect morphology, Insect physiology, Insects.

14275-69

DEVELOPMENT OF THE VIRUS WITH INCLUSION BODIES, OF THE LEPIDOPTERA *LYMANTRIA DISPAR* IN CELL CULTURES. (FR)

C Vago M Bergoin

Entomophaga 8(4):253-261 REF

1963 421 EN835

Antherea pernyi, *Bombyx mori*, Cytoplasm, Inclusion bodies, Insect diseases, Polyhedroses, *Porthetria dispar*, Tissue culture, Viruses. English summary.

14276-69

RECORDS OF THE ORTHOPTEROID INSECTS IN ONTARIO.

V R Vickery D K Kevan

Entomol Soc Ontario Proc 97:13

1966 420 ON8

Geography, Insect dissemination, Insect names, Orthoptera, Research, Surveys.

14277-69

THE ULTRASTRUCTURE AND PHYSIOLOGY OF THE ABDOMINAL AIR-GUIDE RETRAC-TOR MUSCLES IN THE GIANT WATER BUG, *LETHOCERUS*.

B Walcott B Burrows R I B Francki G K Owusu

J Insect Physiol 15(10):1855-1872 REF

Oct 1969 421 J825

Electron microscopy, Electrophysiology, Insect physiology, *Lethocerus*, Muscles, Pcs, Plant cytology, Plant physiology, Ring spot, Roots, Tobacco, Virus diseases (plants).

14278-69

THE MECHANISM OF COUPLING OF THE LOCUST LIGHT OSCILLATOR TO OSCILLATORY INPUTS. (GE)

I Waldron

Z Vergleichende Physiol 57(4):331-337 REF

1968 444.8 Z3

Acrididae, Insect behavior, Insect dissemination, Insect physiology, Light, Oscillation, Wings (insects). English summary

14279-69

LYSOZYME ACTION IN THE COCKROACH-BLOOD CHANGES WHILE PROBING INTER-CELLULARLY.

D R A Wharton J E Lola

J Insect Physiol 15(10):1877-1886 REF

Oct 1969 421 J825

Amino acids, Blood, Chemical analysis, Cytology, Electron microscopy, Insect biochemistry, Insect vectors, Muramidase, *Myzus persicae*, Nitrogen, *Periplaneta americana*, Plant disease transmission, Styles, Tobacco, Virus diseases (plants).

14280-69

PRELIMINARY OBSERVATIONS ON MOULTING AND LIMB REGENERATION IN THE MITE *CALOGLYPHUS BOHARTI*.

J P Woodring C J Simpson

J Insect Physiol 15(10):1719-1728

Oct 1969 421 J825

Caloglyphus, Crop yields, Cucumbers, Fungus diseases (plants), Insect physiology, Legs, *Phomopsis sclerotoides*, Plant disease resistance, Plant physiology, Regeneration, Root rot.

14281-69

RECENT ADVANCES IN THE STUDIES OF INSECT COMPOUND EYES. (JA)

N Yagi N Koyama

Kontyu 35(3):175-185

Sep 1967 421 K833

Cornea, Eyes, Insect physiology, Optic nerve, Retina.

14282-69

SPARROW MITE *DERMANYSSUS PASSERINUS* BERL. ET TROUESS, 1885. (RUS)

A A Zemskaya

Med Parazitol Parazitarn Bolezni 37(3, MAY-JUN):313-319 REF

1968 448.8 M469

Dermayssus, Insect biology, Insect physiology, Insect taxonomy, Larvae, Mites, Parasitic insects, Sparrows. English summary. *Dermayssus americanus* is made a synonym of *D. passerinus*.

14283-69

ENTOMOLOGICAL NOTES ON *BEPRATA MACULICOLLIS* CAM., PERFORATOR OF SEEDS OF SOME ANNONACEAE. (SP)

I Zenner J

Agr Trop 23(8):528-529

Aug 1967 26 AG8

Annonaceae, Eurytomidae, Food habits, Insect biology, Seeds.

GENETICS

14284-69

PUFF FORMING ABILITY AS A FUNCTION OF CHROMOSOMAL POSITION IN *DROSOPHILA MELANOGASTER*.

E G Elgaard G E Brosseau H Kees

Genetics 62(2):337-341 REF

Jun 1969 442.8 G28

Chromosomes, *Drosophila melanogaster*, Genes, Greenhouses, Insect genetics, Methodology, Pesticide application. English abstract

14285-69

THE SCIENTIFIC NAME FOR THE FRUIT CUP LEAF ROLLER. (LEP. TORTRICIDAE). (A CONTRIBUTION TO ORGANOXENIA). (GE)

M Hering

Deut Entomol Ges Mitt 21(5-6):72-73

15 Nov 1962 420 D482

Adoxophyes, Fruit, Genetics, Lepidoptera, Nomenclature, Tortricidae.

14286-69

THE GENETICS OF *DROSOPHILA* MATING BEHAVIOR. II. THE GENETIC ARCHITECTURE OF MATING SPEED IN *DROSOPHILA PSEUDOBOHSCURA*.

S Kessler

Genetics 62(2):421-433 REF

Jun 1969 442.8 G28

Drosophila pseudoobscura, Insect behavior, Insect genetics, Insect rearing, Plant protection, Sex behavior, Spray technique.

14287-69

GENETICAL STUDIES ON THE RESISTANCE TO PARATHION IN *DROSOPHILA MELANOGASTER*. III. INDUCTION OF A SUSCEPTIBLE GENE FROM ITS RESISTANCE ALLELE.

H Kikkawa

Buty-kagaku 32(4):101-105

Nov 1967 421 B65

Alleles, *Drosophila melanogaster*, Genes, Insect genetics, Organophosphorus compounds, Parathion.

ENTOMOLOGY

14288-69

ANALYSIS OF A RECESSIVE MUTATION ON THE Y CHROMOSOME OF THE FLY CALIPHORA ERYTHROCEPIALA. (GE)
H Langer R Schnell D Ribbert F H Ullerich
Z Vererbungslehre 105(1):84-86
1969 442.8 Z34

Calliphora vicina, Chromosomes, Coconuts, Crop rotation, Cultural control (plant diseases), Hydrogen-ion concentration, Insect genetics, Insect mutation, Sex, Soil chemistry, Soil moisture.

14289-69

A SYSTEM FOR SCREENING OF RARE EVENTS IN GENES OF DROSOPHILA MELANOGASTER.

E Lifschytz R Falk
Genetics 62(2):343-352 REF

Jun 1969 442.8 G28

Cucumbers, Drosophila melanogaster, Genes, Insect genetics, Powdery mildew, Surveys, Systemic fungicides. English abstract

14290-69

GENETICAL RELATIONSHIP AND ISOLATING MECHANISMS IN ANANASSAE SPECIES SUBGROUP (SOPHOPHORA, DROSOPHILA). III. CHROMOSOME BEHAVIOUR DURING MEIOSIS IN D. BIPECTINATA, D. MALERKOTLIANA AND THEIR HYBRID.

R D Narda

Cytologia 34(1):126-132 REF

Mar 1969 44.8 C99

Chromosomes, Drosophila bipectinata, Drosophila malerkotliana, Hybrids, Insect genetics, Insect taxonomy, Meiosis, Neuroptera, Odonata, Surveys.

14291-69

EFFICIENCY OF SELECTION FOR INCREASED OR DECREASED RECOMBINATION.

M Nei Y Imaizumi

Amer Natur 102(923, JAN-FEB):90-93

27 Feb 1968 470 AM36

Demography, Drosophila, Insect genetics, Mathematical analysis.

14292-69

A THYMIDINE-INDUCED SEX-LINKED, SEX-LIMITED TEMPERATURE-SENSITIVE LETHAL AND THE SIGNIFICANCE OF MODIFIER GENES IN DROSOPHILA MELANOGASTER.

O Parkash

Experientia 25(9):998

15 Sep 1969 475 EX7

Chromosomes, Drosophila melanogaster, Genes, Insect genetics, Lethal factor, Sex, Temperature, Thymidine.

14293-69

THE POSITION OF THE CP, IN AND RI GENES AND THE 3RD CHROMOSOME CENTROMERE IN DROSOPHILA MELANOGASTER. EVIDENCE FROM A NEW TRANSLOCATION.

J Puro P Arajarvi

Hereditas 62(3):414-418 REF

1969 442.8 H42

Chromosomes, Drosophila melanogaster, Genes, Insect genetics.

14294-69

DEVELOPMENTAL GENETIC STUDIES OF AMINOPEPTIDASES IN DROSOPHILA MELANOGASTER.

R K Sakai D A Tung J G Scandalios

Z Vererbungslehre 105(1):24-29

1969 442.8 Z34

Aminopeptidase, Antibiotics, Cattle, Dipping, Drosophila melanogaster, Electrophoresis, Enzymes, Hypochlorites, Insect biochemistry, Insect genetics, Livestock diseases, Mastitis.

14295-69

THE SHEEP BLOWFLY'S TOLERANCE OF INSECTICIDES (LUCILIA CUPRINA).

G J Shanahan

Ag Gaz New S Wales 78(PT 8):444-445

BIBLIOGRAPHY

Aug 1967 23 N472

Calliphoridae, Carbamates, Insect genetics, Insecticide resistant insects, Organophosphorus compounds.

14296-69

GENETIC VARIATION IN NATURAL ISLAND POPULATIONS OF MEMBERS OF THE DROSOPHILA NASUTA AND DROSOPHILA ANANASSAE SUBGROUPS.

W S Stone M R Wheeler F M Johnson K I Kojima
Nat Acad Sci Proc 59(1):102-109 REF

Jan 1968 500 N21P

Chromosomes, Drosophila, Enzymes, Insect genetics, Population.

MEDICAL ENTOMOLOGY

14297-69

DAMAGE CAUSED BY LANKESTERIA CULICIS (ROSS) TO AEDES AEGYPTI (L.).

W L Barrett

Mosquito News 28(3):441-444

Sep 1968 421 M85

Aedes aegypti, Biological control (insects), Insect diseases, Insect physiology, Lankesteria culicis, Malpighian tubes, Protozoa.

14298-69

GLOBAL ERADICATION OF MALARIA: CHANGES OF STRATEGY AND FUTURE OUTLOOK.

A Gabaldon

Amer J Trop Med Hyg 18(5):641-656 REF

Sep 1969 448.8 AM326

Animal disease transmission, Chemical control (insects), Chlorinated hydrocarbons, DDT, Malaria, Plasmodium, Public health entomology.

14299-69

STUDIES ON THE POSSIBILITIES OF USING BLOWFLIES (DIPT.) AS MEDICOLEGAL INDICATORS IN FINLAND. I. REPORT OF FOUR INDOOR CASES FROM THE CITY OF HELSINKI.

P Nuorteva M Isokoski K Laiho

Suomen Hyönteistieteellinen Aikakauskir Ann Entomol Fenn 33(4):217-225 REF

20 Dec 1967 421 SU7

Calliphoridae, Forensic medicine, Insect pests, Jurisprudence, Medicine.

CROP PROTECTION

14300-69

THE REGULATORY EFFECT OF GIBBERELLIC ACID AND CYTOKININS ON FRUIT MATURATION AND RIPENING. (ABSTRACT).

H A Abdel-Gawad R J Romani

Hortscience 3(2,SUMMER):121

1968 SB1.H6

Fruit, Gibberellic acid, Harvesting, Mitosis, Morphology, Research, Spraying.

14301-69

THE EUROPEAN CORN BORER; HOW TO CONTROL IT.

U S D A Farmers Bull (2190):14P MAP

Jun 1967 1 AG84F

Corn, Diatraea cramboides, Dusting, Heliothis zea, Insect behavior, Insect physiology, Insecticides, Integrated control (insects), Larvae, Leaves, Ostrinia nubilalis, Parasites, Plant injuries, Plant pest control, Plant pest resistance, Pseudaleitia unipuncta, Pyrausta amsliei, Spraying, Tillage.

14302-69

THE EFFECT OF ALAR (N-DIMETHYLAMINO SUCCINAMIC ACID) ON YIELD AND QUALITY ATTRIBUTES OF CONCORD GRAPES.

G A Cahdon C W Donoho

Hortscience 3(2,SUMMER):125-126

1968 SB1.H6

Crop yields, Grapes, Research, Spraying, Succinic acid, 2,2-dimethylhydrazide.

14303-69

THE INFLUENCE OF N-DIMETHYLAMINO SUCCINAMIC ACID (ALAR) ON GROWTH OF THE SWEET CHERRY, PRUNUS AVIUM. (ABSTRACT).

M H Chaplin A L Kenworthy

Hortscience 3(2,SUMMER):125

1968 SB1.H6

Color, Hydrogen-ion concentration, Mazzard cherries, Physiology, Research, Spraying, Succinic acid, 2,2-dimethylhydrazide.

14304-69

THE TEA RESEARCH INSTITUTE OF CEYLON. ANNUAL REPORT FOR THE YEAR 1966. PART II.

E M Cheshire R L De Silva

Ceylon, Tea Research Institute (PT II):169P

1966 68.19 C33A

Agricultural research, Insect pests, Plant biochemistry, Plant diseases, Plant nematodes, Plant physiology, Plant propagation, Reports, Statistical analysis, Tea.

14305-69

EFFECTS OF N-DIMETHYLAMINO SUCCINAMIC ACID (ALAR), (2-CHLOROETHYL TRIMETHYLMONIUM CHLORIDE (CCC), GIBBERELLIC ACID (GA), AND MALEIC HYDRAZIDE (MH) ON BOLTING IN LETTUCE. (ABSTRACT).

G W Dickerson

Hortscience 3(2,SUMMER):97-98

1968 SB1.H6

Chloroethyltrimethylammonium chloride, (2-Chloro), Gibberellic acid, Harvesting, Lettuce, Maleic hydrazide, Research, Spraying, Succinic acid, 2,2-dimethylhydrazide.

14306-69

PATHOGENIC VARIABILITY AND THE UNIT REPRESENTING A SINGLE FERTILIZATION IN PUCCINIA CORONATA VAR. AVENAE.

A Dinoor J Khair G Fleischmann

Can J Bot 46(4):501-508 REF

Apr 1968 470 C16C

Breeding, Fertilization (plants), Plant genetics, Puccinia coronata, Reproduction, Research.

14307-69

COST OF EFFECTIVE PLANT PROTECTION IN THE FIELD, THE GARDEN, AND THE VINEYARD. (GER)

H Drees

Gesunde Pflanzen 19(7):144-146

Jul 1967 464.8 G33

Agricultural production economics, Gardens, Grape vineyards, Land, Pesticides, Plant protection.

14308-69

FRUITING RESPONSE OF THE HIGHBUSH BLUEBERRY TO APPLIED GIBBERELLIC ACID UNDER FIELD CONDITIONS. (ABSTRACT).

P Eek C Mainland

Hortscience 3(2,SUMMER):112

1968 SB1.H6

Blueberries, Crop yields, Gibberellic acid, Morphology, Plant disease control, Pollination, Research.

14309-69

REGULATION OF GROWTH, FLOWERING AND FRUIT ABSCISSION OF APPLES AND PEACHES WITH AMCHEM 66-329. (ABSTRACT).

L J Edgerton W J Greenhalg

Hortscience 3(2,SUMMER):91

1968 SB1.H6

Abscission, Apples, Harvesting, Morphology, Peaches, Plant hormones, Plant physiology, Reproduction, Research.

14310-69
RUTSTROEMIA CUNICULI, A COPROPHILOUS SPECIES OF THE SCLEROTINIAEAE.

M E Elliott
Can J Bot 45(4):521-524
Apr 1967 470 C16C
Ascomycetes, Fungi, Taxonomy.

14311-69
EFFECTS OF N-DIMETHYLAMINO SUCINAMIC ACID ON THE SIZE OF POTATOES. (ABSTRACT).

R Funt
Hortscience 3(2,SUMMER):98
1968 SB1.H6
Morphology, Physiology, Potatoes, Research, Succinic acid, 2,2-dimethylhydrazide.

14312-69
STIMULATION OF FLOWER BUD ABSCISSION AND CONCENTRATION OF FRUIT SET IN TOMATO. (ABSTRACT).

S A Garrison G A Taylor
Hortscience 3(2,SUMMER):92
1968 SB1.H6
Abscission, Greenhouses, Leaves, Research, Spraying, Stimulants, Tomatoes.

14313-69
STIMULATION OF TOMATO RIPENING BY AMCHEM 66-329. (ABSTRACT).

S A Garrison
Hortscience 3(2,SUMMER):121
1968 SB1.H6
Injections, Plant regulators, Pollination, Research, Stimulants, Tomatoes, Water.

14314-69
VEGETATIVE AND REPRODUCTIVE RESPONSES OF Highbush Blueberry to SUCCINIC ACID 2,2-DIMETHYLHYDRAZIDE (ALAR).

J C Hapitan V G Shutak
Hortscience 3(2,SUMMER):125
1968 SB1.H6
Blueberries, Reproduction, Research, Spraying, Succinic acid, 2,2-dimethylhydrazide, Vegetation.

14315-69
PROBLEMS OF INTEGRATED PEST CONTROL IN PRACTICAL PLANT PROTECTION. (GE)

W Herfs
Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 75(7):412-423 REF
Jul 1968 464.8 Z3

Animal physiology, Integrated control (pests), Methodology, Plant protection, Public health, Research. French and English summaries

14316-69
THE EFFECT OF GIBBERELLIC ACID ON THE Highbush Blueberry (VACCINIUM CORYMBOSUM). (ABSTRACT).

R F Hooks A L Kenworthy
Hortscience 3(2,SUMMER):112-113
1968 SB1.H6

Blueberries, Gibberellic acid, Hydrogen-ion concentration, Research.

14317-69
EFFECT OF SILVICULTURAL PRACTICES UPON ARTHROPOD, ANNELID, AND NEMATODE POPULATIONS IN CONIFEROUS FOREST SOIL.

V Huhta E Karppinen M Nurminen A Valpas
4(2):87-146 REF
1967

Animal adaptation, Annelida, Arthropoda, Chemical control (insects), Climate, Coniferae, Dusting, Environment, Fertilizers, Forest cutting cycles, Forests, Insecticides, Nematodes, Population, Re-forestation, Silviculture, Soil analysis, Tables (data), Thinning (trees).

14318-69
ROOTING OF NARROWLEAF EVERGREEN CUTTINGS AS INFLUENCED BY VARIOUS HORMONE TREATMENTS. (ABSTRACT).

R M Irving W O Johnson
Hortscience 3(2,SUMMER):121
1968 SB1.H6
Chemicals, Juniperus, Juniperus chinensis, Plant cuttings, Plant hormones, Roots, Thuja.

14319-69
MUTATION INDUCTION BY EMS IN AUTOTETRAPLOID BARLEY.

R Krishnaswami
Indian Acad Sci Proc Sect B 67(3):125-128 REF
Mar 1968 513 IN25B
Barley, Ethyl methanesulfonate, Mutagens, Mutation, Polyploidy, Radiation.

14320-69
EFFECTS OF CIPC APPLICATIONS TO INDIVIDUAL EYES OF POTATO TUBERS ON TYPE AND PATTERN OF SPROUT DEVELOPMENT.

M S Lee E E Ewing
Hortscience 3(2,SUMMER):102
1968 SB1.H6
Chlorpropham, Morphology, Physiology, Plant diseases, Potatoes, Research, Seeds.

14321-69
THE PESTICIDE REVIEW, 1968.

J N Mahan D L Fowler H H Shepard
54P.
Dec 1968 1.956 M343P43
Agricultural production economics, Agricultural research, Attractants, Fumigants, Fungicides, Herbicides, Insect repellents, Insecticides, Pesticides, Plant regulators, Reviews, Rodenticides.

14322-69
EFFECTS OF SUCCINIC ACID 2,2-DIMETHYLHYDRAZIDE (ALAR) ON APPLES. (ABSTRACT).

G E Mattus
Hortscience 3(2,SUMMER):122
1968 SB1.H6
Apples, Color, Harvesting, Research, Spraying, Storage, Succinic acid, 2,2-dimethylhydrazide.

14323-69
USE OF HIGH SPEED CENTRIFUGATION TO OBTAIN EXTRACTS FROM CUTTINGS TREATED BY TERMINAL APPLICATIONS OF INDOLEACETIC ACID-3 (IAA-2-14C). (ABSTRACT).

J J Mc Guire L S Albert V G Shutak
Hortscience 3(2,SUMMER):120
1968 SB1.H6

Centrifugation, Extracts, Ilex crenata, Isotopes, Plant cuttings, Quantitative analysis, Research.

14324-69
THE EFFECT OF SUCCINIC ACID 2,2-DIMETHYLHYDRAZIDE ON STEM AND LEAF TISSUES OF CHRYSANTHEMUM MORIFOLIUM BRIGHT GOLDEN ANNE. (ABSTRACT).

A W Mitlehner
Hortscience 3(2,SUMMER):118
1968 SB1.H6

Chrysanthemum morifolium, Histology, Plant anatomy, Research, Succinic acid, 2,2-dimethylhydrazide, Tissues.

14325-69
EFFECTS OF GAMMA IRRADIATION ON PRICKLY PEAR CACTUS.

C D Monk
Florida Acad Sci Quart J 30(3):168-172
Sep 1967 500 F66
Gamma rays, Mortality, Opuntia, Plant injuries, Research, Tables (data), Time, Vegetation.

14326-69
INHERITANCE OF SPLIT COTYLEDONS IN SWEDISH TURNIPS (BRASSICA NAPUS).

T P Palmer
New Zeal J Bot 6(2):129-136

Jun 1968 450 N48

Breeding, Genes, Heredity, Plant genetics, Plant morphology, Rape, Temperature, Turnips.

14327-69

STIMULATION AND RETARDATION OF ADVENTITIOUS ROOT FORMATION BY APPLICATION OF B-NINE AND CYCOCEL.

P E Read V C Hoysler
Hortscience 3(2,SUMMER):121
1968 SB1.H6

Chloroethyltrimethylammonium chloride, (2-, Geranium, Plant cuttings, Research, Roots, Stimulants.

14328-69

IN VIVO AND IN VITRO REACTIONS OF 1,1-DIMETHYLAMINO SUCCINAMIC ACID (B-9, ALAR) AND RELATED SUBSTANCES.

R M Sachs K Ryugo
Hortscience 3(2,SUMMER):124-125

1968 SB1.H6

Beans, Biology, Culture media, Leaves, Peas, Research, Succinic acid, 2,2-dimethylhydrazide.

14329-69

ECONOMIC EFFECT AND CONTROL OF WOOD-BORING INSECTS IN FRUIT TREES.

L J Saliba
Int Pest Contr 10(6,NOV-DEC):18,21-23 REF

1968 79.8 P432

Apples, Bark, Chemical control (pests), Control equipment, Economics, Fruit culture, Larvae, Pears, Pesticide residues, Spraying, Wood borers.

14330-69

MOISTURE CORROSION, A NEW CORROSIVE METHOD. (GE)

E Schrader
Gesunde Pflanzen 19(8):165-167

Aug 1967 464.8 G33

Barley, Chemical reactions, Corrosion, Oats, Rye, Seeds, Soil moisture, Wheat.

14331-69

IMPORTANCE OF INDUSTRY AND LABOR TO PLANT CARE IN FARM MANAGEMENT. (GER)

W Stohr
Gesunde Pflanzen 19(7):133-140

Jul 1967 464.8 G33

Agricultural economics, Agricultural industries, Agricultural labor, Chemical control (plant diseases), Chemical control (weeds), Climate, Corn, Farm management, Fungus diseases (plants), Grain, Plant protection, Potatoes, Rape, Turnips, Weeds.

14332-69

VEGETATIVE AND FRUITING RESPONSES OF PECAN (CARYA ILLINOENSIS KOCH) TO HEADING BACK AND N-DIMETHYLAMINO SUCCINAMIC ACID. (ABSTRACT).

J B Storcy G Madden G Garza
Hortscience 3(2,SUMMER):126
1968 SB1.H6

Carya illinoensis, Crop yields, Harvesting, Physiology, Research, Succinic acid, 2,2-dimethylhydrazide, Vegetation.

14333-69

DEGRADATION OF PURE AFLATOXIN BY TETRAHYMENA PYRIFORMIS.

D J Teunissen J A Robertson
Appl Microbiol 15(5):1099-1103
Sep 1967 448.3 AP5

Aflatoxin, Assay, Cells, Fungi, Microbiology, Physiology, Tetrahymena, Time, Ultraviolet rays.

14334-69

BRUSSELS SPROUTS GROWTH AND PRODUCTION AS INFLUENCED BY N-DIMETHYLAMINO SUCCINAMIC ACID (ALAR). (ABSTRACT).

D R Tompkins R A Norton
Hortscience 3(2,SUMMER):100
1968 SB1.H6

Brussels sprouts, Harvesting, Plant regulators, Research, Spraying, Succinic acid, 2,2-dimethylhydrazide.

14335-69

THE EFFECTS OF ALAR ON RED TART CHERRIES (PRUNUS CERASUS).

C R Unrath A L Kenworthy

Hortscience 3(2, SUMMER):125

1968 SB1.H6

Harvesting, Morphology, Physiology, Research, Sour cherries, Succinic acid, 2,2-dimethylhydrazide.

14336-69

THE LOW MAXIMUM TEMPERATURE FOR GROWTH OF THE PSYCHROPHILE SCLEROTINIA BOREALIS; EVIDENCE FOR THE UNCOUPLING OF GROWTH FROM RESPIRATION.

E W B Ward

Can J Bot 46(4):385-390

Apr 1968 470 C16C

Cells, Plant physiology, Research, Respiration, Temperature.

14337-69

REPELLING PHEASANTS FROM SPROUTING CORN WITH A CARBAMATE INSECTICIDE.

R R West R B Brunton D J Cunningham

J Wildlife Manage 33(1):216-219

Jan 1969 410 J827

Bird control, Carbamates, Chemical control (pests), Corn, Costs, Insect repellents, Insecticides, Methylthio)-3,5-xyl methylcarbamate, 4-(), Pheasants, Production economics, Seed treatment.

14338-69

EFFECT OF N-DIMENTHYLAMINO SUCINAMIC ACID (ALAR) ON VEGETABLE GROWTH OF CHILE PEPPER (CAPSICUM FRUTESCENS) PLANTS. (ABSTRACT).

G G Wilbert R M Nakayama

Hortscience 3(2, SUMMER):101

1968 SB1.H6

Bush redpeppers (vegetable), Plant anatomy, Plant growth inhibitors, Research, Succinic acid, 2,2-dimethylhydrazide.

DISEASES

14339-69

THE INTERRELATIONSHIP OF RESISTANCE AND SUSCEPTIBILITY OF COTTON TO VERTICILLIUM ALBO-ATRUM AND FUSARIUM OXYSPORUM F. SP. VASINFECTUM AS INFLUENCED BY SOIL TEMPERATURE. (ABSTRACT).

A Abdel-Raheem L S Bird

Phytopathology 58(6):725

Jun 1968 464.8 P56

Cotton, Fungus diseases (plants), Fusarium oxysporum vasinfectum, Plant disease resistance, Soil temperature, Verticillium albo-atrum, Wilt.

14340-69

BACTERIAL RUST ON SOUR CHERRIES AND PEARS. (GE)

Anonymous

Brunswick Biol Bundesanst Land-forstwirtsch Merkbl 1(28).5P.

Feb 1968 464.9 B833M

Bacterial diseases (plants), Diagnosis, Fruit, Illustrations, Plant injuries, Pseudomonas, Rainfall.

14341-69

NARROW LEAVES REDUCE BOLL ROT.

Anonymous

Cotton 4(6):24

Jun 1968 72.8 C8225

Boll rot, Cotton, Leaves, Plant breeding, Plant disease resistance, Plant diseases.

14342-69

THE ETIOLOGY, INCLUDING NUTRITIONAL CONSIDERATIONS, OF PASSION FRUIT BROWN SPOT IN HAWAII.

M Aragaki S Nakata C Long

Plant Dis Rep 53(10):789-792

Oct 1969 1.9 P69P

Brown spot, Chemical control (plant diseases), Fertilizers, Fungicides, Fungus diseases (plants), Granadilla, Maneb, Plant diseases, Plant nutrition, Triazines.

14343-69

SOIL CONDITION AND THE VIOLET AND WHITE ROOT ROT DISEASES OF FRUIT TREES. (JA)

T Arami

Tokyo Natl Inst Agr Sci Bull Ser C (plant Pathol Entomol) (SER.C)(21):1-109 REF

Mar 1967 464.9 C433

Chemical control (plant diseases), Fungus diseases (plants), Helicobasidium mompa, Hydrogen-ion concentration, Morus, Pears, Plant ecology, Plant physiology, Population, Rosellinia necatrix, Soils, Surveys, Temperature, Violet root rot, White root rot. English summary

14344-69

INTERACTIVE EFFECTS OF GIBBERELLINE ACID AND ALAR ON BUSH BEAN GROWTH. (ABSTRACT).

A R Attarian

Hortscience 3(2, SUMMER):98

1968 SB1.H6

Chemicals, Gibberelline acid, Greenhouse culture, Leaves, Plant physiology, Research, Spraying, Succinic acid, 2,2-dimethylhydrazide.

14345-69

NATURE AND INHERITANCE OF RESISTANCE TO RED CLOVER VEIN MOSAIC VIRUS IN PISUM SATIVUM. (ABSTRACT).

J R Baggett J D Tsai

Hortscience 3(2, SUMMER):107

1968 SB1.H6

Breeding, Environment, Greenhouses, Mosaic, Physiology, Pisum sativum, Virus diseases (plants).

14346-69

VERTICILLIUM spp. AND ASSOCIATED FUNGI FROM CERTIFIED POTATO SEED TUBERS.

C H Beekman G J Stessel F L Howard

Plant Dis Rep 53(10):771-773

Oct 1969 1.9 P69P

Fungus diseases (plants), Potatoes, Surveys, Verticillium.

14347-69

TEN YEARS OF INVESTIGATIONS WITH POTATO VIRUS IN HANNOVER. (GE)

G Borchardt

Gesunde Pflanzen 19(8):157-160

Aug 1967 464.8 G33

Giberellins, Mosaic, Potatoes, Virus diseases (plants), Virus X, Virus Y.

14348-69

ON THE TOLERANCE OF WHEAT AGAINST SEPTORIA NODORUM BERK. (GE)

Broennimann

Phytopathol Z 62(4):365-370

Aug 1968 464.8 P562

Plant disease resistance, Plant diseases, Plant physiology, Research, Septoria nodorum, Wheat. English summary.

14349-69

LIVING HAUSTORIA AND HYPHAE OF ERYSPHIE GRAMINIS F.S.P. HORDEI WITH INTACT AND PARTLY DISSECTED HOST CELLS OF HORDEUM VULGARE.

W R Bushnell J Dueel J B Rowell

Can J Bot 45(9):1719-1732 REF

Sep 1967 470 C16C

Barley, Cells, Erysiphe graminis, Fungus diseases (plants), Hyphae, Parasitism.

14350-69

THE CAUSES OF SAPSTAIN IN RED BEECH.

J A Butecher

New Zeal J Bot 6(3):376-385 REF

Sep 1968 450 N48

Ceratoctysis, Chemical control (plant diseases), Drying, Fagus, Fungus diseases (plants), Lumber preservatives, Sap stain (wood), Sphaeropsidales.

Control of sapstain in red beech lumber in Australia with chemical dips and forced air drying is discussed. Species of Ceratoctysis, Phialophora and Sphaeropsidales (fungi) were identified as the etiological agents.

14351-69

CULTURAL FACTORS IN RELATION TO COLLAR ROT CONTROL OF GROUNDNUT.

J S Chohan S P Kapoor

Punjab Agr Univ J Res 4(4):536-542 REF

Dec 1967 S19.P8

Aspergillus niger, Chemical control (plant diseases), Collar rot (peanuts), Fungicides, Fungus diseases (plants), Peanuts, Research.

14352-69

INTERNAL BROWN SPOT--A CONDITION IN YAMS IN BARBADOS.

D G Coursey

Agr Soc Trinidad Tobago J 67(4):473-482

Dec 1967 8 T73

Brown spot, Plant disease control, Plant disease transmission, Virus diseases (plants), Yams.

14353-69

THE IMPORTANCE OF PRECEDING CROP-DEPENDENT SHIFTS IN THE MICRO FLORA OF THE SOIL. I. THE INFLUENCE OF SOIL FUNGI ON THE ROOT DEVELOPMENT OF WHEAT, PEAS, AND RAPE. (GE)

K H Domseh W Gams

Phytopathol Z 63(1):64-74 REF

Sep 1968 464.8 P562

Chlorella, Crop rotation, Fungus diseases (plants), Peas, Plant physiology, Rape, Research, Roots, Soil fungi, Soil microorganisms, Wheat. English summary.

14354-69

THE PROBLEM OF SOWBANE MOSAIC VIRUS CONTAMINATION.

D J Engelbrecht M H V Regenmortel

Phytopathol Z 63(1):10-14

Sep 1968 464.8 P562

Chenopodium quinoa, Diagnosis, Latent virus (applies), Mosaic, Plant disease transmission, Serological tests, Virus diseases (plants). German summary.

14355-69

STUDIES ON VIRUS DISEASES OF STRAWBERRIES IN THE WESTERN CAPE PROVINCE. I. DEGENERATION OF LOCALLY BRED STRAWBERRY CULTIVARS.

D J Engelbrecht

S Afr J Agr Sci 10(2):345-352

Jun 1967 24 SU3

Chaetosiphon fragaefolii, Crinkle (strawberries), Insect vectors, Strawberries, Virus diseases (plants), Yellow edge (strawberries).

14356-69

CHENOPODIUM AS HOST TO VIRUSES TRANSMITTED FROM APPLE, PEAR AND GRAPEVINE.

P J Engelbrecht L D Wolfswinkel

S Afr J Agr Sci 10(2):419-428 REF

Jun 1967 24 SU3

Apples, Chenopodium, Grapes, Pears, Sap, Vectors, Virus diseases (plants).

14357-69

VERTICILLIUM WILT OF COTTON--THE SITUATION IN THE NAMOI VALLEY.

G Evans

Agr Gaz New S Wales 78(PT 10):580-584

Oct 1967 23 N472

Air-borne plant diseases, Cotton, Crop losses, Cultural control (plant diseases), Plant disease resistance, Soilborne plant diseases, Verticillium, Wilt (cotton).

Crop rotation and the development of resistant strains of cotton are discussed as controls of verticillium wilt of cotton in Australia.

14358-69

EFFECTS OF CERCOSPORA LEAF SPOT AND DATES OF HARVEST ON SUGAR BEET VARIETIES WITH OR WITHOUT MANEB TREATMENT.

R E Finken D E Farus
Amer Soc Sugar Beet Technol J 14(8):643-663

Jan 1968 66.9 AM35J

Cercospora, Chemical control (plant diseases), Crop varieties, Crop yields, Fungicides, Fungus diseases (plants), Harvesting date, Leaf spot, Maneb, Plant biochemistry, Sugar beets, Thiocarbamates.

14359-69

VIRULENCE OF UREDIAL AND AECIAL ISOLATES OF PUCCINIA CORONATA CORDA F.S.P. AVENAE IDENTIFIED IN CANADA FROM 1952 TO 1966.

G Fleischmann
Can J Bot 45(9):1693-1701

Sep 1967 470 C16C

Crown rust (oats), Oats, Plant disease resistance, Puccinia coronata, Time, Virulence.

14360-69

A TRANSMISSIBLE DISORDER OF GLADIOLUS FLOWERS.

J L Forsberg W Hartstern
Plant Dis Rep 53(10):818-819

Oct 1969 1.9 P69P

Gladiolus, Plant disease transmission, Plant galls, Virus diseases (plants).

14361-69

POLYPHENOLS AND DISCOLORATION IN THE ELM DISEASE INVESTIGATED BY HISTOCHEMICAL TECHNIQUES.

C Gagnon
Can J Bot 45(11):2119-2124 REF

Nov 1967 470 C16C

Histochemistry, Phenols, Plant diseases, Research, Ulmus americana.

14362-69

EFFECTS OF N-DIMETHYLAMINO SUCINIC ACID (ALAR) ON YIELD, SIZE, MATURATION, AND QUALITY OF PEACHES WITH REFERENCE TO ITS USE IN ADAPTING FRUIT FOR MECHANICAL HARVESTING. (ABSTRACT).

C E Gambrell E T Sims W H Rhodes

Horizon Science 3(2, SUMMER):125

1968 SB1.H6

Color, Crop yields, Equipment, Harvesting, Peaches, Research, Spraying, Succinic acid, 2,2-dimethylhydrazide.

14363-69

INVESTIGATIONS CONCERNING A ROOT ROT ON PHALAENOPSIS HYBRIDS AND ITS CAUSATIVE AGENT (FUSARIUM OXYSPORUM). (GE)

W Gerlach G Borchardt
Phytopathol Z 63(1):30-39 REF

Sep 1968 464.8 P562

Fungus diseases (plants), Fusarium oxysporum, Morphology, Phalaenopsis, Plant disease control, Research, English summary.

14364-69

LUCERNE BUD MITE RECORDED FROM NEW SOUTH WALES.

F A Gibson
Agr Gaz New S Wales 78(PT 10):576-577

Oct 1967 23 N472

Aceria, Alfalfa, Insect vectors, Virus diseases (plants).

The association of the lucerne bud mite, *Medicago sativa* and the virus disease, witches' broom in Australia is discussed.

14365-69

IDENTIFICATION OF THE VIRUS CAUSING PAPAW YELLOW CRINKLE WITH TOMATO BIG BUD VIRUS BY TRANSMISSION TESTS.

R S Greber
Queensland J Agr Anim Sci 23(2):147-153 REF

Jun 1968 23 Q37

Caricaceae, Clover, Cuscuta, Phyllody, Tomatoes, Virus diseases (plants).

14366-69

FUNGAL FOES THAT MENACE GINGER CROP.

G K Gupta B R Verma
Indian Farming 16(1):15

Apr 1966 22 IN283

Fungicides, Fungus diseases (plants), Fusarium, Phyloctieta, Pythium, *Zingiber officinale*.

14367-69

THE EFFECT OF INOCULUM CONCENTRATION ON VIRUS MULTIPLICATION IN CUCUMBER COTYLEDONS. II. CUCUMBER MOSAIC AND TOBACCO MOSAIC VIRUSES.

P Havranek
Acta Virol 11(6):538-543

Nov 1967 448.3 AC85

Cucumbers, Immunization, Inoculum, Mosaic, Tobacco, Tobacco mosaic virus, Virology, Virus diseases (plants).

14368-69

AN APPARENTLY TWO-FACTOR DOSE-RESPONSE DEPENDENCE IN LUCERNE MOSAIC VIRUS ASSAY.

P Havranek J Zavada
Acta Virol 11(6):544-550 REF

Nov 1967 448.3 AC85

Alfalfa, Biological assay, Culture media, Mosaic, Necrosis, Plant galls, Tobacco, Virus diseases (plants).

14369-69

REMOVAL OF PSEUDOMONADS FROM PLANT LEAVES AND MEASUREMENT OF THEIR IN VIVO BETA-GLUCOSIDASE SYNTHESIS.

D C Hildebrand M N Schroth
Phytopathology 58(3):354-358

Mar 1968 464.8 P56

Bacterial diseases (plants), Centrifuges, Cowpeas, Glucosidases, Hydrogen-ion concentration, Leaves, Parasitism, Plant biochemistry, *Pseudomonas putida*, *Pseudomonas savastanoi*, *Pseudomonas syringae*, *Scutellaria marcescens*, Tobacco.

14370-69

EVIDENCE FOR THE RELEASE OF 28 S RNA FROM TURNIP YELLOW MOSAIC VIRUS HEATED IN VITRO.

J H Hitchborn
Acta Virol (3, PT 1):137-140 REF

Jul 1968 QR360.A1J6

Culture media, Heat, Methodology, Mosaic (turnips), Research, Ribonucleic acid, Temperature, Virus diseases (plants).

14371-69

ALTERNARIA LEAF SPOT OF LOLIONDO (OLEA WELWITSCHII (KNOBL.) GILG. AND SCHELLENB.).

D Hocking
Arusha Trop Pesticides Res Inst Misc Rep 558, 6 P

May 1966 423.9 G7922

Alternaria porri, Alternaria tenuis, Black mildew, Cladosporium, Dothideoida, Fungus diseases (plants), Glomerella, Leaf spot, *Meliola petiolaris*, *Olea welwitschii*.

14372-69

LEVELS OF SHIKIMATE AND FOLATE IN PRIMARY LEAVES OF WHEAT AND IN UREDOSPORES OF LEAF RUST.

D W Hollomon A Fuchs R Rohringer
Can J Bot 45(9):1771-1773 REF

Sep 1967 470 C16C

Folic acid, Fungus diseases (plants), Leaf rust (wheat), Plant biochemistry, Shikimic acid, Wheat.

14373-69

STUDIES ON THE PATHOLOGICAL ANATOMY OF RICE PLANTS INFECTED BY HELMINTHOSPORIUM ORYZAE, I. BEHAVIOR OF THE CAUSAL FUNGUS ON THE COLEOPTILE OF RICE SEEDLINGS AND ITS ULTRAFINE STRUCTURE. (JA)

O Horino S Akai
Phytopathol Soc Jap Ann 34(1):51-55 REF

Jan 1968 464.9 P562

Cell wall, Coleoptile, Fungus diseases (plants), *Helminthosporium oryzae*, Immunity, Microscopy, Mycology, Plant anatomy, Plant cytology, Plant hardness, Rice, Seed germination, Seedlings. English summary

14374-69

CRYOPRESERVATION AND PATHOGENICITY OF SELECTED ISOLATES OF COLLETOTRICHUM, RHIZOCTONIA, AND PHYTOPHTHORA.

S W Hwang A L Anderson G C Papavizas R H Converse
Phytopathology 58(3):362-364 REF

Mar 1968 464.8 P56

Beans, *Colletotrichum lindemuthianum*, Freeze drying, Fungus diseases (plants), Nitrogen, *Phytophthora fragariae*, Plant morphology, Radishes, *Rhizoctonia solani*, *Rhizoctonia solani*, Soybeans, Sugar beets, Wheat.

14375-69

PLANT CARE ON THE NORTH SEA COAST. (GE)

W Ihleman
Gesunde Pflanzen 19(8):169-171

Aug 1967 464.8 G33

Climate, Fungus diseases (plants), Herbicides, Humidity, Plants, Soil moisture, Tillage.

14376-69

INFLUENCE OF HYDROSTATIC PRESSURE UPON GERMINABILITY OF THE SPORES OF SOME RICE-PARASITIC FUNGI EFFECTS OF PHYSICAL FACTORS UPON PLANT DISEASES. III. (JA)

H Ikegami I Takagi
Phytopathol Soc Jap Ann 33(3):144-149

Jun 1967 464.9 P562

Cochliobolus miyabeanus, Conidia, Fungus diseases (plants), Hydrostatics, *Piricularia oryzae*, Plant physiology, Rice, Seed germination, *Ustilago nuda* virens. Abstract in English

14377-69

SOIL-BORNE WHEAT MOSAIC VIRUS FROM POA ANNUA L., A NEW HOST. (JA)

T Inaba Y Saito
Phytopathol Soc Jap Ann 34(1):40-45

Jan 1968 464.9 P562

Electron microscopy, Grain, Leaves, Mosaic, Plant disease transmission, *Poa annua*, *Polymyxa graminis*, Sap, Seed germination, Seedlings, Soil-borne plant diseases, Virus diseases (plants), Wheat. Abstract in English.

14378-69

YELLOW DWARF OF PEA AND BROADBEAN CAUSED BY MILK-VETCH DWARF VIRUS. (JA)

T Inouye K Mitsuhasha
Phytopathol Soc Jap Ann 34(1):28-35 REF

Jan 1968 464.9 P562

Aphididae, *Astragalus*, Broadbeans, Dwarf disease, Epidemiology, Host indexing (plants), Peas, Plant disease transmission, Plant diseases, Temperature, Time, Virus diseases (plants), Yellow dwarf. Abstract in English

14379-69

EVIDENCE OF HYPHAL GROWTH OF CRONARTIUM QUERCUM IN THE PINE-HOST CAMBIUM.

F F Jewell
Plant Dis Rep 53(10):793-794 REF

Oct 1969 1.9 P69P

Cambium, *Cronartium quercum*, Fungus diseases (plants), *Pinus*, Plant physiology.

14380-69

VEGETABLE DRY ROT AND PHYTOPROGSERVICE IN NORTH-HANOVER 1968. (GE)
Kabiersch

Gesunde Pflanzen 20(11):252-254
Nov 1968 464.8 G33

Biochemistry, Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Phytophthora, Potatoes, Spraying.

14381-69

PHYTOPHTHORA-PROGNOSIS AND -CONTROL IN THEORY AND PRACTICE. (GE)
Kabiersch

Gesunde Pflanzen 19(8):163-165
Aug 1967 464.8 G33

Chemical control (plant diseases), Fungus diseases (plants), Phytophthora.

14382-69

ON THE LONGEVITY OF CONIDIA OF CUCUMBER DOWNTY MILDEW FUNGUS, WITH SPECIAL REFERENCE TO THE INFLUENCE OF SUNLIGHT. (JA)
T Kajiwara Y Iwata

Phytopathol Soc Jap Ann 34(2):85-91 REF
Mar 1968 464.9 P562
Conidia, Cucumbers, Downy mildew, Fungus diseases (plants), Irradiation, Light, Mycology, Pseudoperonospora cubensis, Seed germination, Temperature, Time. Abstract in English

14383-69

A CONTRIBUTION TO STUDIES ON THE BIOLOGY AND CONTROL OF APPLE MILDEW (PODOSPHAERA LEUCOTRICA (ELL. AND EV.) SALM.).
H Kaspers

Pflanzenschutz Nachr Bayer 20(4):687-702
1967 464.8 H67AE
Apples, Biology, Environment, Fungus diseases (plants), Greenhouse culture, Mildew, Plant disease control, Podosphaera leucotricha, Seed germination.

14384-69

EPIDEMIOLOGY OF TEA BLISTER BLIGHT (EXOBASIDIUM VEXANS). THE GENUS GRAPHELYSIA HAMPSON, 1911 (LEPIDOPTERA -HETEROCERCA).
A Kerr R L De Silva

Ceylon Tea Res Inst Tea Quart 40(1):9-18
Mar 1969 68.18 C33
Arctiidae, Epidemiology, Exobasidium vexans, Fungus diseases (plants), Insect color, Insect physiology, Insect taxonomy, Plant disease transmission, Reproductive organs, Tca.

14385-69

ECOLOGICAL STUDIES ON THE SOFT-ROT BACTERIA OF VEGETABLES. III. APPLICATION OF IMMUNOFLUORESCENT STAINING FOR THE DETECTION AND THE COUNTING OF ERWINIA AROIDEAE IN SOIL. (JA)
T Kikumoto M Sakamoto

Phytopathol Soc Jap Ann 33(3):181-186 REF
Jun 1967 464.9 P562
Bacterial diseases (plants), Bacterial soft rot, Cabbage, Carrots, Cells, Erwinia aroideae, Fluorescent dyes, Immunology, Plant ecology, Soil-borne plant diseases, Vegetables. Abstract in English

14386-69

STUDIES ON THE MONILIA DISEASE OF THE APPLE CAUSED BY MONILINIA MALI (TAK.) NHETZEL. (JA)
J Kimura

Phytopathol Soc Jap Ann 33(3):126-128
Jun 1967 464.9 P562
Apples, Fruit, Fungus diseases (plants), Moniliasis, Sclerotinia mali.

14387-69

A VEINBANDING VIRUS OF GROUNDNUTS, ARACHIS HYPOGAEA L.

P J Klessner
S Afr J Agr Sci 10(2):515-528 REF
Jun 1967 24 SU3

Aphis craccivora, Insect vectors, Peanuts, Vein banding, Virus diseases (plants).

14388-69

BEAN YELLOW MOSAIC AND TOBACCO RINGSPOT VIRUS ISOLATED FROM CROTALARIA (CROTALARIA SPECTABILIS). (JA)

Y Komuro M Iwaki
Phytopathol Soc Jap Ann 34(1):9-15 REF
Jan 1968 464.9 P562

Beans, Crotalaria spectabilis, Electron microscopy, Host indexing (plants), Ring spot, Taxonomy, Tobacco, Virus diseases (plants), Yellow mosaic. Abstract in English

Abstract: The host range was: aster, zinnia, Nicotiana tabacum (bright yellow, xanthi), N. glutinosa, pectunia, okra, broad bean, crotalaria, bean, soybean, turnip, New Zealand spinach, Gomphrena globosa, C. amaranthicolor.

14389-69

STRAINS OF TOBACCO MOSAIC VIRUS CONTAINED IN CIGARETTES, WITH ESPECIAL REFERENCE TO THE INFECTION SOURCE FOR MOSAIC DISEASE OF TOMATO. (JA)

Y Komuro M Iwaki
Phytopathol Soc Jap Ann 34(2):98-102 REF
Mar 1968 464.9 P562

Cigarette industry, Mosaic, Plant biochemistry, Tobacco, Tobacco mosaic virus, Tomatoes, Virus diseases (plants). Summary in Japanese

14390-69

MILDEWS THAT MIGHT MAR YOUR OPIUM POPPY.

K L Kothari
Indian Farming 16(7):23-24
Oct 1966 22 IN283

Chemical control (plant diseases), Cultural control (plant diseases), Mildew (plants), Papaver somniferum.

14391-69

EFFECT OF SOIL FUMIGANTS ON CONTROL OF PEA ROOT ROT PATHOGENS.

J M Kraft W A Haglund T P Reiling
Plant Dis Rep 53(10):776-780 REF
Oct 1969 1.9 P69P

Chemical control (plant diseases), Chlorinated hydrocarbons, Chloropicrin, Dichloropropene, 1,3-, Fungus diseases (plants), Peas, Root rot, Soil fumigation, Telone.

14392-69

COMPUTATION OF RESULTS OF CROP PROTECTION EXPERIMENTS BY THE METHOD OF TOWNSEND AND HEUBERGER.

W F Kremer G Unterstenhofer
Pflanzenschutz Nachr Bayer 20(4):625-628
1967 464.8 H67AE

Apples, Celery, Cercospora, Chemical control (plant diseases), Crop yields, Fungicides, Fungus diseases (plants), Leaves, Peronospora, Venturia inaequalis. From the Townsend and Heuberger method

14393-69

AN ELECTRON MICROSCOPIC OBSERVATION OF THE SURFACE STRUCTURE OF CONIDIA OF ERYSPHE GRAMINIS HORDEI. (JA)

H Kunoh S Akai
Mycol Soc Jap Trans 8(2):77-79
01 Sep 1967 451 N622

Barley, Conidia, Electron microscopy, Erysiphe graminis hordei, Fungus diseases (plants), Mycology, Plant physiology, Powdery mildew.

14394-69

BREEDING FOR DISEASE RESISTANCE AND YIELD IMPROVEMENT IN FLUE-CURED TOBACCO. (AF)

M P Lamprecht
S Afr J Agr Sci 10(1):41-50
Mar 1967 24 SU3

Crop yields, Flue-cured tobacco, Fungus diseases (plants), Meloidogyne incognita, Plant breeding,

Plant disease resistance, Plant nematodes, Powdery mildew, Tobacco. English and French abstracts

14395-69

WITCHES' BROOM OF BERBERIS. (GE)

K Lohwag
Pflanzenarzt 21(5):66-67
01 May 1968 464.9 P482

Berberis, Fungus diseases (plants), Lolium perenne, Rust (wheat), Urdiniales.

14396-69

IDENTIFICATION OF A BACTERIAL STRAIN PSEUDOMONAS SOLANACEARUM E. F. SM. OF TOBACCO (NICOTIANA TABACUM L.) IN COLOMBIA. (SP)

J C Lozano T H D Thurston
Agro Trop 23(5):289-294
May 1967 26 AG8

Bacterial diseases (plants), Biochemistry, Pseudomonas solanacearum, Tobacco. English abstract

14397-69

IS AN EARLY INFECTION BY PERONOSPORA TABACINA ADAM CONTROLABLE IN THE FIELD. (GE)

W Luders
Gesunde Pflanzen 19(5):89-93
May 1967 464.8 G33

Chemical control (plant diseases), Field crops, Fungicides, Fungus diseases (plants), Maneb, Peronospora tabacina, Polyethylene thiuram sulfides, Tobacco, Zinc propylenebis(dithiocarbamate), Zineb.

14398-69

EFFECT OF DIFFERENT MICRONUTRIENT SPRAYS ON CHLOROSIS, GRANULATION, FRUIT FALL, YIELD AND FRUIT QUALITY OF SWEET ORANGES VAR. BLOOD RED.

H R Manchanda
Punjab Agr Univ J Res 4(4):508-515
Dec 1967 S19.8

Chemical control (plant diseases), Chlorosis (citrus), Crop yields, Oranges, Research, Spraying.

14399-69

ELECTRON MICROSCOPY OF UREDO SPORES OF MELAMPSORA LINI AND OF RUST-INFECTED FLAX.

M S Manocha M Shaw
Can J Bot 45(9):1575-1582 REF
Sep 1967 470 C16C

Electron microscopes, Flax, Fungus diseases (plants), Melampsora lini, Rust (flax), Uredospores.

14400-69

THREE YEARS OF TESTS WITH NEW ANTI-PERONOSPORIC PREPARATIONS. (IT)

A Martinoli
Giornate Fitopatol 173-177

26 Mar 1967 SB599.G5

Botrytis cinerea, Chemical control (plant diseases), Folpet, Fungus diseases (plants), Grape vineyards, Grapes, Oidium, Peronosporales, Tetrachloroethyl(thio)-4-cyclohexene-1,2-dicarboximide, cis-N.

14401-69

PRODUCTION OF TOXINS AND PECTOLYTIC ENZYMES BY TWO ISOLATES OF SCLEROTIUM BATATICOLA TAUB. AND THEIR ROLE IN PATHOGENESIS.

S B Mathur
Phytopathol Z 62(4):327-333
Aug 1968 464.8 P562

Enzymes, Fungus diseases (plants), Pectins, Plant extracts, Sclerotium bataticola, Sunflowers, Toxins. German summary

14402-69

CONTROLLING EFFECT OF PHENYLHYDRAZINE DERIVATIVES ON RICE BLAST IN RELATION TO THE STRUCTURAL MODIFICATIONS. (JA)

K Matsuura I Sumina Y Kitamura Y Usui
Phytopathol Soc Jap Ann 33(3):132-137

Jun 1967 464.9 P562
Blast, Chemical control (plant diseases), Fungus diseases (plants), Greenhouse culture, Hydrazine compounds, Injections, Phenylhydrazine, Plant biochemistry, Plant physiology, Rice, Seed germination, Seedlings, Spraying. Abstract in English

Abstract: Controlling effect in relation to the structural modifications of chlorophenylhydrazine and beta-acylchlorophenylhydrazine derivatives.

14403-69
PHYLLACHORA DOMINGENSIS AND PHYLLACHORA SIMPLEX--NEW REPORTS FOR THE CONTINENTAL.
F D Matthews
Plant Dis Rep 53(10):820
Oct 1969 1.9 P69P
Fungus diseases (plants), Plant geography.

14404-69
ON FUSARIUM OXYSPORUM F. SP. LAGENARIAE N. F. CAUSING WILT OF LAGENARIA VULGARIS VAR. HISPIDA. (JA)
T Matuo I Yamamoto
Mycol Soc Jap Trans 8(2):61-63
01 Sep 1967 451 N622
Calabash gourds, Fungus diseases (plants), Fusarium oxysporum lagenariae, Gourds, Plant morphology, Vegetables, Wilt disease (plants).

14405-69
A LOW-VOLUME POSTHARVEST SPRAY OF BENOMYL PREVENTS ASCOSPORE PRODUCTION IN APPLE LEAVES INFECTED BY VEN-TURIA INAEQUALIS.
D L McIntosh
Plant Dis Rep 53(10):816-817
Oct 1969 1.9 P69P
Apples, Benomyl, Chemical control (plant diseases), Fungicides, Venturia inaequalis.

14406-69
A NEW LEAF SPOT DISEASE OF GARDENIA JASMINOIDES FROM INDIA.
V G Mhaikar
Phytopathol Z 62(4):390-392
Aug 1968 464.8 P562
Gardenia, Leafspot, Phyllosticta, Plant diseases, Research, Taxonomy. German summary

14407-69
TOBACCO DISEASES IN VENEZUELA, COSTA RICO AND NICARAGUA.
C R Miller
Plant Dis Rep 53(10):823-824
Oct 1969 1.9 P69P
Fungus diseases (plants), Plant diseases, Surveys, Tobacco, Virus diseases (plants).

14408-69
CONTRIBUTION TO THE INVESTIGATION OF CHEMOENDOTHERAPY OF SUGAR BEET INFECTED BY CERCOSPORA BETICOLA SACC. (CZ)
M Miric
Zastita Bilja 12(91-92):267-276
1966 464.8 Z1
Cercospora beticola, Fungicides, Fungus diseases (plants), Greenhouse culture, Mycelia sterilia, Plant biochemistry, Spores, Sugar beets. English summary

14409-69
AN EVIDENCE FOR THE MULTIPLICATION OF RICE DWARF VIRUS IN THE VECTOR CELL CULTURES INOCULATED IN VITRO.
J Mitsuhashi S Nasu
Appl Entomol Zool 2(2):113-114
Jun 1967 SB599.A6
Cells, Culture media, Dwarf disease (rice), Injections, Insect vectors, Nephrotettix cincticeps, Research, Virus diseases (plants).

14410-69
A NEW BACTERIAL LEAF SPOT OF ANTIRRHINUM SEEDLINGS CAUSED BY A SUBSPECIES OF PSEUDOMONAS FLUORESCENS MIGULA, 1895.
M L Moffett

Queensland J Agr Anim Sci 23(2):121-132 REF
Jun 1966 23 Q37
Antirrhinum, Bacterial diseases (plants), Biochemistry, Host relationships, Leaf spot, Pseudomonas, Taxonomy.

14411-69
BACTERIAL LEAF SPOT OF CAPE GOOSEBERRY IN QUEENSLAND.
M L Moffett D S Teakle
Queensland J Agr Anim Sci 23(2):133-145 REF
Jun 1966 23 Q37
Bacterial diseases (plants), Biochemistry, Gooseberries, Leaf spot, Taxonomy, Xanthomonas.

14412-69
RUST OF STONE FRUITS.
Agr Gaz New S Wales 78(PT 12):BACK COVER
Dec 1967 23 N472
Bordeaux mixture, Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Rust (trees), Sulfur compounds, Tranzschelliclla, Zinb.

14413-69
PEACH LEAF CURL (TAPHRINA).
Agr Gaz New S Wales 78(PT 7):BACK COVER
Jul 1967 23 N472
Bordeaux mixture, Chemical control (plant diseases), Fungus diseases (plants), Leaf curl, Peaches, Phytopathology, Taphrina deformans.

Chemical control of Taphrina deformans, the fungal agent of peach leaf curl in Australia is discussed.

14414-69
COMMON SCAB AND RHIZOCTONIA DISEASE OF POTATO.
Agr Gaz New S Wales 78(PT 5):BACK COVER
May 1967 23 N472
Actinomycetes, Chemical control (plant diseases), Cultural control (plant diseases), Fungus diseases (plants), Rhizoctonia, Scab (potatoes).

14415-69
LEAFSPOT OF CUCURBITA PEPO CAUSED BY ALTERNARIA CUCUMERINA. (JA)
N Nishihara
Phytopathol Soc Jap Ann 34(2):152-155 REF
Jul 1968 464.9 P562
Alternaria cucumerina, Fungus diseases (plants), Leaf spot, Pumpkins, Vegetables.

14416-69
HELMINTHOSPORIUM LEAFSPOT OF BULFALOGRASS IN JAPAN. (JA)
N Nishihara
Phytopathol Soc Jap Ann 33(3):197-200
Jun 1967 464.9 P562
Buchloe dactyloides, Fungus diseases (plants), Grasses, Helminthosporium buchloes, Leaf spot.

14417-69
COMPARISON OF ABSORBED BIPHENYL IN ORANGES AND BIPHENYL VAPOR IN CONTROLLING DECAY, MYCELIAL GROWTH, AND SPORULATION BY PENICILLIUM DIGITATUM.
S M Norman D C Fouse C C Craft
Plant Dis Rep 53(10):780-784
Oct 1969 1.9 P69P
Biphenyl, Chemical control (plant diseases), Fungus diseases (plants), Oranges, Penicillium digitatum.

14418-69
PEROXIDASE ISOZYMES IN VIRUS-INFECTED PLANTS.
A Novacky R E Hampton
Phytopathology 58(3):301-305 REF
Mar 1968 464.8 P56
Cowpeas, Enzymes, Kidney beans, Mosaic, Mosaic (beans), Mosaic (tobacco), Mung beans, Peroxidases, Ring spot, Streak (tobacco), Tobacco, Virus diseases (plants).

14419-69
INVESTIGATIONS ON THE USE OF THE PARASITIC FUNGUS BEAUVERIA BASSIANA IN THE CONTROL OF PESTS ON FIELD AND FOREST CROPS IN CZECHOSLOVAKIA. (FR)
V Novak A Samsinakova
Entomophaga Mem Hors Ser (2):133-135
1964 421 EN835M
Beauveria bassiana, Biological control (insects), Hylobius abietis, Insect outbreaks, Leptinotarsa decemlineata, Trypodendron lincatum. English summary

14420-69
INTERACTION BETWEEN TWO RACES OF PIRICULARIA ORYZAE IN LESION-FORMATION IN RICE PLANTS AND ACCUMULATION OF FLUORESCENT COMPOUNDS ASSOCIATED WITH INFECTION. (JA)
K Ohata T Kozaka
Tokyo Nat Inst Agr Sci Bull Ser C (plant Pathol Entomol) (SER.C)(2):111-132 REF
Mar 1967 464.9 C433
Chromatography, Fluorescent substances, Leaves, Piricularia oryzae, Plant biochemistry, Plant injuries, Plant physiology, Rice, Seed germination, Ultraviolet rays, Virus diseases (plants).

14421-69
PHYSIOLOGICAL STRAINS OF PUCCINIA GRAMINIS TRITICI IN COLOMBIA AND ITS IMPLICATIONS. (SP)
N Orjuela J
Agr Trop 23(7):465
Jul 1967 26 AG8
Fungus diseases (plants), Puccinia graminis.

14422-69
PRELIMINARY REPORT ON THE AMINO ACID COMPOSITION OF TMV-C PROTEIN.
N Oshima Y Kanazawa
Phytopathol Soc Jap Ann 34(2):155-157
Jul 1968 464.9 P562
Amino acids, Centrifugation, Leaves, Mosaic, Necrosis, Plant physiology, Proteins, Rorippa sylvestris, Tobacco, Tobacco mosaic virus, Virus diseases (plants). Summary in Japanese

14423-69
THE INDUCTION OF STELAR REDDENING IN STRAWBERRY ROOTS.
A G Otterbacher D Powell C C Zych
Plant Dis Rep 53(10):794-797 REF
Oct 1969 1.9 P69P
Fungus diseases (plants), Phytophthora fragariae, Plant disease resistance, Steles, Strawberries.

14424-69
PHYSIOLOGICAL AND ECOLOGICAL STUDIES ON THE OVERSUMMERING AND OVERWINTERING OF THE STRIPE RUST OF WHEAT AND BARLEY, PUCCINIA STRIIFORMIS WESTEND. (JA)
S Ozoe
Phytopathol Soc Jap Ann 33(3):129-131
Jun 1967 464.9 P562
Barley, Fungus diseases (plants), Hibernation, Plant ecology, Plant hardiness, Plant physiology, Puccinia glumarum striiformis, Stripe rust, Uredinules, Wheat.

14425-69
THE PRESENT STATE OF RICE RESEARCH IN INDIA--DISEASES.
S Y Padmanabhan
Indian Farming 16(6):22-25
Sep 1966 22 IN283
Blast (rice), Fungicides, Helminthosporium, Piricularia, Plant disease resistance, Rice.

14426-69
DAMAGE AND EVOLUTION DISTURBANCE THROUGH WEATHER INFLUENCE. (GER)
M Paetzholdt
Gesunde Pflanzen 19(7):148-150
Jul 1967 464.8 G33
Apples, Climate, Cork rot, Plant injuries, Roots, Seeds, Temperature.

14427-69
DISEASES OF ANNUAL OLEACEAE IN COLOMBIA. (SP)
 H Patino C
Agro Trop 23(8):532-539
 Aug 1967 26 AG8
 Colombia, Olacaeae, Plant diseases, Surveys.

14428-69
CONTROL OF POWDERY MILDEW OF CUCURBITS WITH SYSTEMIC AND NONSYSTEMIC FUNGICIDES.
 A O Paulus F Shibuya J Osgood G W Bohn B J Hall Et Al
Plant Dis Rep 53(10):813-816
 Oct 1969 1.9 P69P
 Carbonates, Chemical control (plant diseases), Cucurbits, Fungicides, Powdery mildew, Systemic fungicides.

14429-69
A STUDY OF THE BIOLOGY OF PSEUDOPEZIZA JONESII NANNF (PYRENOPEZIZA MEDICAGINIS FUCK) THE CAUSE OF YELLOW BLOTCHES ON LEAVES OF ALFALFA. (CZ)
 M Perisic D Stojanovic
Zastita Bilja 12(91-92):183-190
 1966 464.8 Z1

Alfalfa, Apothecium, Fungus diseases (plants), Leaves, Plant physiology, Pseudopeziza jonesii, Pseudopeziza medicaginis, Pyenidia, Seed germination, English summary

14430-69
LIMB RUST OF PINE: THE CAUSAL FUNGI.
 R S Peterson
Phytopathology 58(3):309-315, MAP REF
 Mar 1968 464.8 P56
 Cronartium, Fungus diseases (plants), Peridermium, Peridermium filamentosum, Peridermium stalactiforme, Pinus, Rust.

14431-69
A LEAFSPOT DISEASE OF KENAF IN MARYLAND ASSOCIATED WITH CRISTULARIELLA PYRAMIDALIS.
 F G Pollack H E Waterworth
Plant Dis Rep 53(10):810-812
 Oct 1969 1.9 P69P
 Cristulariella pyramidalis, Fungus diseases (plants), Kenaf, Leaf spot.

14432-69
FUNGICIDES CAN CHECK FRUIT-ROT AND DIE-BACK OF CHILLI.
 M Ramalingam C S Krishnamurthy
Indian Farming 16(5):34-35,37
 Aug 1966 22 IN283
 Bordeaux mixture, Bush redpeppers (vegetable), Crop yields, Dieback, Fungicides, Rot (redpeppers).

14433-69
PESTICIDE SPRAYING DURING THE RAINS.
 D B Reddy
Indian Farming 16(9):34
 Dec 1966 22 IN283
 Chemical control (insects), Insecticide application, Insecticides, Methodology, Rainfall.

A discussion of pesticide use in India during the rainy season and suggestions for their applications are given.

14434-69
CURRENT STATUS OF IN VITRO SYNTHESIS OF PLANT VIRUSES.
 M E Reichmann J M Clark
Annu Rev Phytopathol 6:295-316 REF
 1968 464.8 AN72
 Adenosine triphosphates, Amino acids, Proteins, Ribonucleic acid, Virus diseases (plants), Viruses.

14435-69
SELECTIVE VAPOR PHASE ACTIVITY OF CHLORONITRO- AND CHLOROBENZENES IN SOIL.
 L T Richardson

14427-69
Phytopathology 58(3):316-322 REF

Mar 1968 464.8 P56
 Chlorinated hydrocarbons, Fungi, Fungicides, Pythium ultimum, Rhizoctonia solani, Soil fumigation, Trichoderma viride, Vapors.

14436-69
EVALUATION AND USE OF FUNGICIDES IN COMMERCIAL CULTIVATION OF BARLEY IN COLOMBIA. (SP)

G Robayo J Orjuela H D Thurston
Agro Trop 23(7):455-464 REF
 Jul 1967 26 AG8

Barley, Chemical control (plant diseases), Crop yields, Fungicides, Fungus diseases (plants), Manco, Nickel, Spraying, Zinc. English abstract

14437-69
INHERITANCE OF RESISTANCE IN TOMATO (LYCOPERSICON SPP.) TO THE ANTHRACNOSE PATHOGEN COLLETOTRICHUM COCCOIDES.

M Robbins F F Angell
Hortscience 3(2,SUMMER):110
 1968 SB1.H6

Anthracnose (tomatoes), Breeding, Colletotrichum coccoides, Microorganisms, Plant disease resistance, Research, Temperature, Tomatine.

14438-69
PHYTOPHTHORA DISEASES OF RUBBER IN CEYLON AND INDIA.

Rubber Res Inst Malaya Plant Bull (95):49-51
 Mar 1968 78.9 R825

Chemical control (plant diseases), Fungus diseases (plants), Hevea, Phytophtora.

Leaf fall, pod rot and black stripe of rubber plants in Ceylon and India and the chemical controls of their etiologic agents are discussed.

14439-69
EARLY SOWINGS AND FUNGICIDES HELP ARREST THE ANGULAR LEAFSPOT OF COTTON.

V M Sahni S D Gera
Indian Farming 16(10):27
 Jan 1967 22 IN283

Angular leafspot, Copper oxychloride, Cotton, Fungicides, Plant disease resistance, Seed planting.

The use of fungicides, early crop sowing and disease resistant varieties of cotton are discussed as controls of angular leaf spot diseases of cotton in India.

14440-69
SUGARCANE DISEASES IN THE PUNJAB--A SURVEY REPORT.

S S Sandhu N S Mann D S Bhatti
Punjab Agr Univ J Res 4(4):533-535
 Dec 1967 S19.P8

Bacteria, Plant diseases, Reports, Research, Sugarcane, Surveys, Tables (data).

14441-69
EVIDENCE OF PHENOTYPIC MIXING BETWEEN TWO STRAINS OF TOBACCO MOSAIC VIRUS.

S Sarkar
Z Vererbungslehre 105(1):87-90
 1969 442.8 Z34

Coconuts, Diagnosis, Leaves, Plant diseases, Plant nutrition, Proteins, Ribonucleic acid, Soil moisture, Temperature, Tobacco, Tobacco mosaic virus, Virus diseases (plants).

14442-69
A MILD STRAIN OF TRISTEZA VIRUS IN HASAKU TREES (CITRUS HASSAKU HORT. ET Y. TANAKA) IN HIROSHIMA PREFECTURE. (JA)

A Sasaki
Phytopathol Soc Jap Ann 33(3):162-167 REF
 Jun 1967 464.9 P562

Citrus, Greenhouse culture, Limes, Plant disease transmission, Plant grafting, Seedlings, Tree diseases, Tristeza, Virus diseases (plants). Abstract in English

14443-69

ISOLATION OF RISHITIN FROM TUBERS OF INTERSPECIFIC POTATO VARIETIES CONTAINING DIFFERENT LATE-BLIGHT RESISTANCE GENES.

N Sato K Tomiyama N Katsui T Masamune
Phytopathol Soc Jap Ann 34(2):140-142
 Mar 1968 464.9 P562

Crop varieties, Fungus diseases (plants), Immunity, Late blight, Nodules (plants), Phytoalexin, Phytophtora infestans, Plant biochemistry, Plant disease resistance, Plant genetics, Potatoes, Rishitin, Solanum demissum. Abstract in Japanese

14444-69

EFFECTS OF N-DIMETHYLAMINO SUCINAMIC ACID (ALAR) ON MATURITY AND SIZE OF POCAHONTAS STRAWBERRIES. (ABSTRACT).

R L Schaefer
Hortscience 3(2,SUMMER):97
 1968 SB1.H6

Greenhouse culture, Harvesting, Plant growth regulator, Research, Sampling (statistics), Strawberries, Succinic acid, 2,2-dimethylhydrazide.

14445-69

NEW TIN COMPLEX COMPOUNDS AS PLANT PROTECTION FUNGICIDES. (GE)

P Schicke K R Appel L Schroder Rhien
 Ingelheim
Pflanzenschutzberichte 38(12):189-202

Oct 1968 464.9 P48
 Biochemistry, Celery, Cercospora beticola, Chemical control (plant diseases), Metals, Phytophtora infestans, Plant protection, Research, Septoria apii, Sugar beets, Tomatoes. English summary

14446-69

GREENHOUSE TESTING OF SUGAR BEETS FOR RESISTANCE TO CURLY TOP.

C L Schneider A M Jafri A M Murphy
Amer Soc Sugar Beet Technol J 14(8):727-734
 REF

Jan 1968 66.9 AM35J

Circulifer tenellus, Crop varieties, Curly top, Greenhouse culture, Insect vectors, Methodology, Plant breeding, Plant disease resistance, Sugar beets, Virus diseases (plants).

14447-69

ENHANCEMENT OF TOBACCO RATTLE VIRUS STABLE FORM INFECTION BY HETEROLOGOUS SHORT PARTICLES.

J S Semaneik M B Kajiyama
Virology 34(1):170-172
 Jan 1968 448.8 V81

Particle size determination, Rattle disease (tobacco), Tobacco, Virus diseases (plants).

14448-69

STUDIES ON THE PARASITISM AND CONTROL OF TEA ROOT DISEASE FUNGI IN CEYLON. HETEROPTERA.

N Shanmuganathan A Rei Do Rego Barros
Ceylon Tea Res Inst Tea Quart 40(1):19-25
 Mar 1969 68.18 C33

Chemical control (plant diseases), Ctenucha, Fungus diseases (plants), Insect color, Insect physiology, Insect taxonomy, Methyl bromide, Nematodes, Parasitism, Reproductive organs, Roots, Soil fumigation, Tea.

14449-69

POWDERY MILDEW OF RUBBER IN PAPUA.

D E Shaw
Papua New Guinea Agr J 19(3):140-146 MAP
 Dec 1967 23 N453

Fungus diseases (plants), Hevea, Oidium, Powdery mildew, Surveys, Zoogeography.

14450-69

AN APPROACH TO THE ELUCIDATION OF HOST-PARASITE INTERACTION. (JA)

J Shishiyama T Hirai
Phytopathol Soc Jap Ann 34(2):158-160
 Mar 1968 464.9 P562

Deoxyribonucleic acid, Host indexing (plants), Indoleacetic acid, Plant biochemistry, Plant metabolism, Virology, Virus diseases (plants).

14451-69
ERRATUM 49: A PLEOMORPHIC PARASITE ON CEREAL SEEDS, PYRENOPHORA SEMENIPERDA.

R A Shoemaker
Can J Bot 45(4):542
 Apr 1967 470 C16C

Grain, Parasitism, Pyrenophora semeniperda, Seeds. On page 1452, the illustration, fig. 1 was inverted. Consequently the caption refers to the wrong spores.

14452-69
SEED DRESSING FORMULATIONS.

C C Shroff
Pesticides 1(5):27
 Jan 1968 SB951.P43

Formulations, Fungicides, Fungus diseases (plants), Seed treatment.

14453-69
PATHOGENICITY OF SOME SPECIES OF GODRONIA OCCURRING IN QUEBEC.

E Smerlis
Plant Dis Rep 53(10):807-810

Oct 1969 1.9 P69P

Alnus, Betula, Fungus diseases (plants), Surveys.

14454-69
TWO IMPORTANT BACTERIAL DISEASES ON BEANS. (TU)

S Sonmezalp
Bitki Koruma Bulteni 6(3):103-110

1966 464.8 B542

Bacterial diseases (plants), Beans, Cornybacterium, Methodology, Plant quarantine, Xanthomonas phaseoli, English summary

14455-69
EFFECT OF A VARIETAL MIXTURE ON SUGARCANE ROOT ROT SUSCEPTIBILITY AND ON THE RHIZOSPHERE MICROFLORA.

K V Srinivasan

Indian Acad Sci Proc Sect B 68(3):150-162 REF
 Sep 1968 513 IN25B

Actinomycetes, Bacteria, Penicillium, Plant ecology, *Pythium graminicola*, Root rot, Sugarcane, Trichoderma.

14456-69
OCCURRENCE OF PHYLLOSTICTA LEAF SPOT ON FLORIDA CIGAR-WRAPPER TOBACCO.

J R Stavely R R Kincaid

Plant Dis Rep 53(10):837-839

Oct 1969 1.9 P69P

Fungus diseases (plants), Leaf spot, Phyllosticta, Plant morphology, Tobacco.

14457-69
THE EFFECT OF BENOMYL ON MYCOSPHAERELLA MUSICOLA.

R H Stover

Plant Dis Rep 53(10):830-833

Oct 1969 1.9 P69P

Bananas, Benomyl, Chemical control (plant diseases), Fungicides, Mycosphaerella musicola, Plant physiology, Spore germination, Sporulation.

14458-69
UTILIZATION OF VARIOUS FORMS OF NITROGEN BY DRECHSLERA SOKORINIANA, THE PATHOGEN CAUSING FOOT ROT DISEASE IN WHEAT.

C V Subramanian P D Tyagi

Indian Acad Sci Proc Sect B 68(3):111-130 REF

Sep 1968 513 IN25B

Foot rot, Fungus diseases (plants), Metabolism, Mycology, Nitrogen, Pyrenophora, Wheat.

14459-69

EFFECT OF BETA-ACYLPHENYLHYDRAZINE DERIVATIVES ON BLAST FUNGUS UPON

LEAVES AND IN TISSUES OF RICE PLANTS. (JA)

I Sumina K Matsuura
Phytopathol Soc Jap Ann 33(3):138-143

Jun 1968 464.9 P562

Blast, Chemical control (plant diseases), Culture media, Fungus diseases (plants), Hydrazine compounds, Leaves, Plant growth inhibitors, Pyricularia oryzae, Rice, Seed germination, Tissues. Abstract in English

14460-69

ANATOMICAL STUDIES OF RICE PLANT INFECTED WITH BACTERIAL LEAF BLIGHT, WITH SPECIAL REFERENCE TO WILT SYMPTOM. (JA)

H Tabei

Phytopathol Soc Jap Ann 34(2):137-139 REF

Mar 1968 464.9 P562

Bacterial diseases (plants), Bacterial leaf blight, Plant anatomy, Plant histology, Rice, Seedlings, Time, Wilt disease (plants). Abstract in English

14461-69

STUDIES ON DWARF DISEASE OF MULBERRY TREE. XVI. ON TWO STRAINS. (JA)

Y Tahama

Phytopathol Soc Jap Ann 33(3):156-161

Jun 1967 464.9 P562

Dwarf disease, Leaves, Morus, Plant physiology, Tree diseases, Tree injuries, Virus diseases (plants). Abstract in English.

14462-69

A COLOR TEST FOR CITRUS EXOCORTIS IN JAPAN.

S Tanaka

Phytopathol Soc Jap Ann 34(2):151-152

Jul 1968 464.9 P562

Assay, Citrus, Color, Grapefruit, Immunity, Lemons, Mandarin oranges, Sweet oranges, Trifoliate oranges, Virus diseases (plants). Summary in Japanese

14463-69

THE DEVELOPMENT OF ECHINULATION IN UREDOSPORES OF WHEAT STEM RUST.

P L Thomas P K Isaac

Can J Bot 45(3):287-289

Mar 1967 470 C16C

Electron microscopes, Electron microscopy, Fungus diseases (plants), Wheat.

14464-69

MORPHOLOGY OF CAULIFLOWER MOSAIC VIRUS. (JA)

H Tochihara

Phytopathol Soc Jap Ann 33(3):195-197

Jun 1967 464.9 P562

Cauliflower, Centrifugation, Culture media, Electron microscopy, Mosaic, Plant morphology, Virus diseases (plants). Abstract in English

Abstract: The writer corrects his mistake in identification of the virus particles reported in his previous paper (*Ann. Phytopath. Soc. Japan* 25: 187, 1960).

14465-69

RADISH ENATION MOSAIC VIRUS. (JA)

H Tochihara

Phytopathol Soc Jap Ann 34(2):129-136 REF

Mar 1968 464.9 P562

Enation mosaic, *Eurydema rugosa*, *Hyadaphis pseudobrassicae*, Immunity, Injections, Insect vectors, Leaves, Mosaic, *Myzus persicae*, *Phylloptreta striolata*, Plant disease transmission, Plant taxonomy, Radishes, Temperature, Virus diseases (plants). Abstract in English.

Abstract: The following plants were not susceptible: tobacco (bright yellow, yanthi, white burley), *Nicotiana glutinosa*, tomato, pepper, kidney bean, cowpea, broad bean, garden pea, cucumber, pumpkin, *Chrysanthemum coronarium*, morning-glory, beet, rape, *Datura stramonium*, and *Physalis floridana*.

14466-69

CHEMICAL TREATMENT THE ANSWER TO FRUIT SCALD.

B L Tugwell

S Australia J Agr 71(8):296-298

Mar 1968 23 SO84

Apples, Carbamates, Chemical control (plant diseases), Dipping, Ethoxyquin, Fruit, Pears, Propanil, Scald, Spraying, Storage diseases, Urea compounds.

14467-69

POST-YEAR RESPONSES OF CONCORD GRAPE VINES TREATED WITH N-DIMETHYLAMINO SUCCINAMIC ACID. (ABSTRACT).

L D Tukey

Hortscience 3(2,SUMMER):126

1968 SB1.H6

Crop yields, Pruning, Research, Spraying, Succinic acid, 2,2-dimethylhydrazide.

14468-69

SOME FACTORS AFFECTING INCIDENCE OF LEAF SPOT OF TURMERIC BY TAPHRINA MACULANS BUTLER.

R Upadhyay M S Pavgi

Phytopathol Soc Jap Ann 33(3):176-180

Jun 1967 464.9 P562

Curcuma longa, Fungus diseases (plants), Humidity, Leaf spot, Plant ecology, Soil-borne plant diseases, *Taphrina maculans*, Temperature. Abstract in Japanese

14469-69

VIRUS DISEASES OF CEREALS IN SOUTH AFRICA. II. IDENTIFICATION OF TWO ELONGATED PLANT VIRUSES AS STRAINS OF SUGAR CANE MOSAIC VIRUS.

M B Von Wechmar J S Hahn

S Afr J Agr Sci 10(1):241-252 REF

Mar 1967 24 SU3

Grain, Mosaic, Sugarcane, Virus diseases (plants).

14470-69

FUNGAL PATHOGENICITY TO SOUND AND MECHANICALLY DAMAGED BLUE LUPINE SEED IN ANEXIC CULTURE AT TWO TEMPERATURES.

H D Wells D K Bell

Plant Dis Rep 53(10):774-776

Oct 1969 1.9 P69P

Fungus diseases (plants), *Lupinus angustifolius*, Plant injuries, Surveys.

14471-69

VIRUS A AS A CAUSE OF STREAK ON SECONDARY INFECTED EYESTECKLINGS OF THE POTATO. (GE)

H Wenzl

Pflanzenschutzberichte 37(12):197-202

Jun 1968 464.9 P48

Diagnosis, Leaves, Potatoes, Research, Streak, Virus a (potatoes), Virus diseases (plants), Virus s. English summary

14472-69

OVERWINTERING OF TUBERCULINA MAXIMA ON WHITE PINE BLISTER RUST CANKERS.

E F Wicker J M Wells

Phytopathology 58(3):391

Mar 1968 464.8 P56

Blister rust, Cold, *Cronartium ribicola*, Culture media, Fungus diseases (plants), Hibernation, *Pinus*, *Tuberculina*.

14473-69

SEVERAL YEARS' RESEARCH ON THE INVESTIGATIONS OF VIRUS IN PEARS. (GE)

E A Wigger

Gesunde Pflanzen 19(8):160

Aug 1967 464.8 G33

Pears, Ring spot, Virus diseases (plants).

14474-69

COMATRICHIA NODULIFERA, A NEW MYXOMYCETE FROM TEXAS.

CROP PROTECTION

14475-69

C Wollman C J Alexopoulos
Can J Bot 46(2):157-159
 Feb 1968 470 C16C
 Agar, Bark, Culture media, Myxomycetes, Plant diseases.

14475-69

NUTRITIONAL EFFECTS CONNECTED WITH SHEEPNOSING, A DISORDER OF GRAPEFRUIT. (ABSTRACT).

H K Wutschler
hortscience 3(2, SUMMER):107
 1968 SB1.H6

Deficiency diseases, Hydrogen-ion concentration, Leaves, Potassium, Research, Soil structure.

14476-69

AN ALTERNATIVE WEED HOST FOR XANTHOMONAS CAMPESTRIS.

J M Young
Plant Dis Rep 53(10):820-821
 Oct 1969 1.9 P69P

Bacterial diseases (plants), Brassica, Weeds, Xanthomonas.

14477-69

THE EFFECT OF CYCLOHEXIMIDE ON THE RESISTANCE OF POTATO TUBER DISCS TO INVASION BY A FLUORESCENT PSEUDOMONAS SP.

M Zucker M M El-Zayat
Phytopathology 58(3):339-344 REF
 Mar 1968 464.8 P56

Cycloheximide, Enzymes, Fluorescence, Plant biochemistry, Plant disease resistance, Potatoes, Proteins, Pseudomonas.

ARTHROPODS

14478-69

PLANT CARE AND BEE CARE GO HAND IN HAND. (GE)

Anonymous
Gesunde Pflanzen 19(7):150-151
 Jul 1967 464.8 G33

Bees, Plant odor, Plant protective devices, Pollination, Social insects.

14479-69

PESTS OF LEGUME COVERS. CHARACTERISTIC COCOON PRODUCTION.

Anonymous J R Pedro A Borgonovi H Vaz De Arruda
Rubber Res Inst Malaya Plant Bull (102):105-112
 May 1969 78.9 R825

Chemical control (insects), Clover, Insect pests, Insect physiology, Insect rearing, Legumes, Plant nematodes, Pupal cases, *Bombyx mori*, Statistical analysis, Surveys.

14480-69

PROBLEMS REGARDING THE PROTECTION OF FRUIT TREES AGAINST INFESTATIONS BY LEAF MINING MICROLEPIDOPTERA. (IT)

G Briolini G Celli P Giunchi
Giornate Fitopatol 365-372 MAP
 26 Mar 1967 SB599.G5

Apples, Biological control (insects), Chemical control (insects), Dichlorvos, Insect outbreaks, Leaf miners, Microlepidoptera, Organophosphorus compounds. Many species of microlepidoptera are discussed.

14481-69

FACTORS AFFECTING THE INFESTATION OF APHIDS ON POTATO PLANTS. (JA)

M Enaizumi
Jap J Appl Entomol Zool 12(1):10-17 REF
 Mar 1968 475 J27
 Aphididae, *Aphis gossypii*, *Aulacorthum solani*, Insect dissemination, Insect pests, Insect temperature, *Macrosiphum euphorbiae*, *Myzus persicae*, Potatoes, Rainfall.

BIBLIOGRAPHY

14482-69

THE FREQUENCY OF SOGATA ORIZICOLA MUIR AND SOGATA CUBANA CRAWF. ON RICE AND ECHINOCHLOA COLONUM IN COLOMBIA. (SP)

G E Galvez
Agr Trop 23(6):384-389
 Jun 1967 26 AG8

Chemical control (insects), Cultural control (insects), *Echinochloa*, Plant pest resistance, Planting date, Rice, *Sogata cubana*, *Sogata orizicola*. English abstract

14483-69

INSECTS OF THE SEASON 1966 RELATED TO FRUIT, VEGETABLES AND ORNAMENTALS.

H W Goble
Entomol Soc Ontario Proc 97:6-7
 1966 420 ON8

Fruit, Insect control, Insects, Ornamental plants, Plant injuries, Research, Vegetables.

14484-69

NOTE ON THE TRANSMISSION OF NORTHERN CEREAL MOSAIC VIRUS BY MUELLERIANELLA FAIRMAIREI (PERRIS). (JA)

T Ishii
Jap J Appl Entomol Zool 11(4):191-192
 Dec 1967 475 J27

Insect vectors, Mosaic, *Muellerianella fairmairei*, Research, Virus diseases (plants).

14485-69

PESTS OF THE GRAPEVINE.

E L Jones
Agr Gaz New S Wales 78(PT 12):708-714
 Dec 1967 23 N472

Acarina, *Brevipalpus*, *Eriophyes vitis*, Grapes, *Phalaenoides glycinae*, Plant pest control, *Pseudococcus maritimus*, *Rhynchosphora*, *Thysanoptera*, *Tortrix postvittana*. Control of economically important grapevine pests in Australia are discussed.

14486-69

LEST WHITE GRUBS VISIT YOUR SUGAR-CANE...AND FIND YOU UNPREPARED.

A N Kalra
Indian Farming 16(12):36-37
 Mar 1967 22 IN283

Chemical control (insects), Crop rotation, Insect ecology, Light traps, Plowing, *Scarabaeidae*, Sugarcane. The control of a sugarcane pest, *Holotrichia (Lachnostenra) serrata* by light traps, cultural and chemical controls is discussed.

14487-69

INFLUENCE OF PESTICIDES ON RUSSETTING OF GOLDEN DELICIOUS APPLES.

F W Kremer
Pflanzenschutz Nachr Bayer 20(4):629-643
 1967 464.8 H67AE

Acaricides, Apples, Chemical control (insects), Crop varieties, Fungicides, Insect ecology, Insect pests, Insecticides, Mites, *Orchidaceae*, *Panonychus ulmi*, Russetting, Spraying. Acaricides, Apples, Chemical control (insects), Crop varieties, Fungicides, Insect ecology, Insect pests, Insecticides, Mites, *Orchidaceae*, *Panonychus ulmi*, Russetting, Spraying.

14488-69

HARD-TO-KILL PESTS OF FRUIT TREES; THE MITES.

H F Lower
S Australia J Agr 71(8):273-278
 Mar 1968 23 SO84

Bryobia, Chemical control (insects), Equipment, Fruit, Insect control, Insect eggs, Insect pests, Insecticide resistant insects, Insecticides, Mites, Oils, Spraying, Temperature, Tree injuries.

14489-69

ON THE APPEARANCE AND THE CONTROL OF THE RED-CURRANT LEAF-GALL FLY. (GE)

H G Michel
Gesunde Pflanzen 20(3):50-52
 Mar 1968 464.8 G33

Biochemistry, *Cecidomyiidae*, Chemical control (insects), Chlorinated hydrocarbons, Currants, *Dasineura tenuis*, Demeton, Endosulfan, Insect pests, Insecticides, Organophosphorus compounds, Plant injuries.

14490-69

BIONOMICS OF THE RICE GUNDHY BUG, LEPTOCORISA VARICORNIS FABR. (HEMIPTERA, HETEROPTERA; COREIDAE).

S S Misra
Alahabad Farmer 42(2):75-77
 Mar 1968 22 AL5

Biometry, Crop losses, *Leptocorisa varicornis*, Life cycle, Rice.

14491-69

THE DEVELOPMENT OF THE CITRUS PSYLLA, TRIOZA ERYTREAE (DEL GUERCIO) (HOMOPTERA: PSYLLIDAE), ON CITRUS LIMON AND FOUR INDIGENOUS HOST PLANTS.

V C Moran
Entomol Soc Southern Afr J 31(2):391-402 REF
 Sep 1968 420 EN86
 Host plants, Insect morphology, Insect rearing, *Psyllidae*, Rutaceae.

14492-69

VARIOUS PROBLEMS ON VECTORS OF RICE VIRUSES.

S Nasu
Kontyu 35(3):290-301 REF
 Sep 1967 421 K833
 Insect vectors, Rice, Virus diseases (plants).

14493-69

STUDIES ON THE INSECTICIDE RESISTANCE OF THE TEA RED SPIDER MITE, TETRANYCHUS KANZAWAI KISHIDA. II. THE MITE RESISTANCE TO PHENKAPTON, ESTOX, AND KELTHANE IN THE TEA GROWING AREAS IN JAPAN. (JA)

M Osakabe
Jap J Appl Entomol Zool 12(1):18-22
 Mar 1968 475 J27
 Chemical control (insects), Chlorinated hydrocarbons, *Dichlorophenyl(thio)methyl* O,O-diethyl phosphorodithioate, *Dicofol*, Dimethyl S-(1-methyl-2-ethylsulfinyl)ethyl phosphorodithioate, Insecticide resistant insects, Insecticides, Mites, Organophosphorus compounds, Tea, *Tetranychus kanzawai*.

14494-69

TANYMECUS DILATICOLLIS GYLL. (CURCULIONIDAE, COLEOPTERA) AS A PEST OF CULTIVATED PLANTS AND THE PRE-SOWING TREATMENT OF THE SEED WITH INSECTICIDES AS A CONTROL MEASURE. (GE)

P A Popov
Pflanzenschutzberichte 38(8/9):101-114 MAP REF
 Jul 1968 464.9 P48

Biochemistry, Chemical control (insects), Corn, Curculionidae, *Diclidrin*, Insect biology, Insect pests, Insecticides, Plant injuries, Seed planting. English summary

14495-69

TRANSMISSION EXPERIMENTS WITH THE LATENT PRUNUS-VIRUS AND THE GALL MITE VASATES FOCKEUI NAL. (GE)

G Proeseler
Phytopathol Z 63(1):1-9 REF
 Sep 1968 464.8 P562

Feeding, Insect vectors, Mites, Plant disease transmission, *Prunus*, Research, Time, Virus diseases (plants). English summary.

14496-69

OCURRENCE AND CONTROL OF HAPLODIPLOYSIS EQUESTRIS IN HOLLAND. (GE)

E G Rijsten
Pflanzenschutz Nachr Bayer 20(4):674-680
 1967 464.8 H67AE
Cecidomyiidae, Chemical control (insects), Chlorinated hydrocarbons, Crop rotation, DDT,

Gall-making insects, Haplodiplosis equestris, Insect ecology, Insect pests, Insecticides, Marshes, Sandy soils, Soil sampling, Spraying, Weeds, Zoogeography.

14497-69

INSECTICIDAL EXPERIMENTS FOR THE CONTROL OF MUSTARD APHID.

G Rout B Senapati

Pflanzenschutz Nachr Bayer 20(4):681-686

1967 464.8 H67AE

Chemical control (insects), Crops, Cruciferae, Insect pests, Insecticide application, Lipaphis erysimi, Myzus persicae, Organophosphorus compounds, Parathion, Seed treatment, Soil analysis, Spraying.

14498-69

RECOMMENDATIONS FOR CHEMICAL CONTROL OF PESTS OF RUBBER PLANTATIONS.

Rubber Res Inst Malaya Plant Bull (95):67-68

Mar 1968 78.9 R825

Chemical control (insects), Hevea, Insect pests, Insecticide application, Methodology. These recommendations supersede those published in *Planters' Bulletin* 82 (p.17).

14499-69

FURTHER EXPERIMENTS REGARDING THE CLARIFICATION OF THE CONNECTION BETWEEN THE BEET LACEBUG PIESMA QUADRATUM (FIEB) AND THE BEET CRINKLE VIRUS. (GE)

H Schmutzter

Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 75(7):387-394 REF

Jul 1968 464.8 Z3

Crinkle (sugar beets), Gastrointestinal system, Insect vectors, Piesma, Plant disease transmission, Plant diseases, Research, Virus diseases (plants). English summary

14500-69

OBSERVATIONS ON THE TOLERANCE AND SUSCEPTIBILITY OF TEA CLONES TO SHOT-HOLE BORER INVESTIGATION--1969.

K Thirugnanasuntharan D Calnaido

Ceylon Tea Res Inst Tea Quart 40(1):47-52

Mar 1969 68.18 C33

Brucellosis, Cattle, Livestock diseases, Plant breeding, Plant disease resistance, Scolytus rugulosus, Surveys, Tea.

14501-69

NEOTETRANYCHUS RUBICOLA BAGD. ON THE RASPBERRY BUSH IN SERBIA. (SE)

B Tomasevic

Zastita Bilja 18(93/95):207-211

1967 464.8 Z1

Acaricides, Chemical control (insects), Dichlorophenyl(thio)methyl O,O-dimethyl phosphorodithioate, Dicofol, Insect behavior, Insect pests, Neotetranychus rubicola, Phoshamidon, Raspberries. French summary.

14502-69

A CONTRIBUTION TO THE STUDY OF OLIVE CECIDOMYIIDAE: LASIOPTERA BERLESIANA (PAOLI). (CZ)

A Tominic

Zastita Bilja 12(91-92):221-228 REF

1966 464.8 Z1

Cecidomyiidae, Gall-making insects, Insect biology, Insect pests, Larvae, Lasioptera berlesiana, Olives, Pistacia lentiscus, Pistacia terebinthus. English summary

14503-69

KNOW YOUR ENEMY: THE SO-CALLED 'CORNFLY'. (GE)

H J Wasserburger

Mitt Deut Landwirt -ges 83(24):906-907

13 Jun 1968 18 N39

Chemical control (insects), Corn, Hylemya platrua, Insect pests, Plant injuries. Seeds.

NEMATODES

14504-69

THE SUGAR BEET NEMATODE.

J Altman

Down Earth 23(4):27-31 SPRING

1968 381 D75

Biochemistry, Chemical control (nematodes), Crop losses, Crop yields, Dichloropropene, I,3-, Heterodera, Morphology, Plant injuries, Plant nematodes, Soil fumigation, Sugar beets.

14505-69

A STUDY ON THE CORRELATION OF CITRUS NEMATODE POPULATION WITH DECLINE OF CITRUS.

O S Bindra H K Chhabra K L Chadha N K Mehrotra

Punjab Agr Univ J Res 4(4):543-546

Dec 1967 S19.P8

Correlation, Crop yields, Oranges, Population, Research, Tables (data), Tylenchulus semipenetrans.

14506-69

IMPORTANCE AND CAUSES OF NEMATODE MOVEMENT IN THE SOIL AND RESEARCH ON THE MIGRATION OF 'DITYLENCHUS MYCELIOPHAGUS'. (FR)

J C Cayrol M Ritter

Rev Zool Agr Appl 66(7-9, 3RD TRIMESTER):92-102 REF

1967 410.9 S012

Behaviorism, Ditylenchus, Locomotion, Mathematical analysis, Plant nematodes, Soils.

14507-69

PATHOGENICITY AND IDENTITY OF ROOT-KNOT NEMATODES ON FIVE VARIETIES OF BANANA.

M Z Claudio R G Davide

Philippine Agr 5(1):241-251

Aug 1967 25 P542

Bananas, Immunization, Meloidogyne incognita, Plant nematodes, Root knot nematode.

14508-69

A NEW NEMATODE-DESTROYING HARPOSPORIUM.

C Drechsler

Amer J Bot 55(10, NOV-DEC):1251-1253

Dec 1968 450 AM36

Biological control (pests), Fungi, Harposporium, Nematode controlling fungi, Nematodes, Plant pests, Taxonomy.

14509-69

THE OCCURRENCE OF HETERODERA GLYCINES ON TRIFOLIUM ALEXANDRINUM IN UNITED ARABIC REPUBLIC.

I A Elmiligy

Nematologica 14(4):592

1968 436.8 N342

Clover, Heterodera glycines, Plant nematodes.

14510-69

RING NEMATODE DISEASE OF RICE IN LOUISIANA. (ABSTRACT).

J P Hollis M S Embabi S A Alhassan

Phytopathology 58(6):728-729

Jun 1968 464.8 P56

Agar, Criconemoidea, Meloidogyne incognita, Plant nematodes, Soil-borne plant diseases.

14511-69

INFLUENCE OF ZYGOTYLENCHUS GUEVARAI (TOBAR JIMENEZ, 1963) BRAUN AND LOOF, 1966, ON SOME OF ITS HOSTS. (SP)

A T Jimenez D G Benitez C M Sierra

Rev Iberica Parasitol 28(2, APR-JUN):177-187

Jun 1968 436.8 R32

Alfalfa, Plant nematode resistance, Plant nematodes, Viola, White clover, Zygotylenchus. English abstract

14512-69

CONTROL OF CITRUS NEMATODE, TYLENCHUS SEMIPENETRANS, WITH DBCP IN ESTABLISHED CYPRUS CITRUS GROVES.

J Philis

Plant Dis Rep 53(10):804-806

Oct 1969 1.9 P69P

Chemical control (nematodes), Citrus, Cyprus, Dibromo-3-chloropropene, 1,2-, Plant nematodes, Tylenchulus semipenetrans.

14513-69

EFFECT OF HETERODERA SCHACHTII ON SUGAR BEET SEEDLINGS UNDER MONOXYGENIC CONDITIONS.

A G Polychronopoulos B F Lownsbury

Nematologica 14(4):526-534 REF

1968 436.8 N342

Germ-free life, Heterodera schachtii, Plant nematodes, Plant physiology, Seedlings, Sugar beets.

14514-69

PRESENT KNOWLEDGE ON PHYTOPHAGOUS NEMATODES AND THEIR RELATIONS WITH VIRUS DISEASES. (FR)

Ann Epiphyt 18(2):249-272 REF

1967 464.9 F84AN

Longidorus, Nematodes, Plant protection, Trichodorus, Virus diseases (plants), Xiphinema. English summary

14515-69

UNDERPOPULATION IN PLANT PARASITIC NEMATODES.

J W Seinhorst

Nematologica 14(4):549-553

1968 436.8 N342

Fusarium oxysporum, Peas, Plant nematodes, Population, Rotylenchus.

14516-69

ECONOMICALLY IMPORTANT NEMATODES IN ONTARIO--1966.

J L Townshend

Entomol Soc Ontario Proc 97:5-6

1966 420 ON8

Agricultural economics, Greenhouse culture, Nematodes, Research, Soil analysis, Tobacco.

WEEDS

14517-69

SECONDARY EFFECTS OF FUNGICIDES ON BARLEY. (SP)

L E Chaves E Y Orjuela N

Agro Trop 23(5):319-330 REF

May 1967 26 AG8

Barley, Crop yields, Dithane, Fungicides, Maneb, Plant physiology, Triphenyltin acetate. English abstract

14518-69

ONION WEED CONTROL ON MALLEE SOILS.

T R Davidson

S Australia J Agr 71(8):290-293

Mar 1968 23 SO84

Alfalfa, Chemical control (weeds), Cultural control (weeds), Eucalyptus, Herbicides, Onions, Perennial plants, Planting, Soils, Spraying, Superphosphates, Tillage, Weed control, Wind erosion.

14519-69

EFFECT OF SELECTIVE HERBICIDES TO LIQUORICE PLANT GROWING IN CEREAL FIELDS. (TU)

N Dinc M Zel

Bitki Koruma Buletin 6(3):94-102

1966 464.8 B542

Biochemistry, Chemical control (weeds), Crop yields, Field crops, Grain, Herbicides, Methyl-4-chlorophenoxyacetic acid, 2-. English summary

14520-69

MONOLINURON IN INCREASE OF GRAIN. (GE)

K Fritsch

Gesunde Pflanzen 19(8):154-156

Aug 1967 464.8 G33

CROP PROTECTION

14521-69

Chemical control (weeds), Crop yields, Grain, Herbicides, Monolinuron, Simazine, Weed control, Weeds.

14521-69

COLTSFOOT CONTROL WITH 2,4-DP ON THE STUBBLE. (GE)

K Fritsch

Gesunde Pflanzen 19(5):97-100

May 1967 464.8 G33

Amitrole, Chemical control (weeds), Dichlorprop, Herbicides, Mecoprop, Stubble crops, Tussilago farfara.

14522-69

WATER HYACINTH AND ITS CONTROL.

M N Hari

Pesticides 1(9):28-29

May 1968 SB951.P43

Chemical control (weeds), Costs, D, 2,4-, Eichhornia crassipes.

14523-69

DEVELOPMENT OF CORN-GROWING ALONG THE RHEIN THROUGH USE OF GROWTH PRODUCING HERBICIDES. (GER)

R J Haupt

Gesunde Pflanzen 19(7):140-142

Jul 1967 464.8 G33

Chemical control (weeds), Corn, D, 2,4-, Herbicides, Methyl-4-chlorophenoxyacetic acid, 2-, Phenoxy acid compounds, Plant regulators, Weather, Weeds.

14524-69

POSSIBILITIES OF WEED CONTROL IN CORN WITH ATRAZINE, TAKING SPECIAL NOTE OF THE CONTROL OF COUCH-GRASS, WILD OATS AND OLDER WEEDS. (GE)

K Hiebel

Gesunde Pflanzen 20(4):89-91

Apr 1968 464.8 G33

Atrazine, Biochemistry, Chemical control (weeds), Corn, Dosage, Herbicides, Oats, Spraying, Weeds.

14525-69

CONTROL OF WEED GRASS. (GE)

A V Horn

Gesunde Pflanzen 19(5):100-106

May 1967 464.8 G33

Avena fatua, Calcium nitrate, Chemical control (weeds), Corn, Crop losses, Crop yields, Grasses, Herbicides, Production economics, Simazine, Triallate.

14526-69

EXPERIENCES WITH PATORAN (METABROMURON) ON WEED CONTROL IN BEAN SHRUBS. (GE)

V O Hornig

Gesunde Pflanzen 20(3):46-50

Mar 1968 464.8 G33

Arctium, Beans, Centaurea cyanus, Chemical control (weeds), Herbicides, Metobromuron, Plant biochemistry, Shrubs, Toxins.

14527-69

CORN DAISIES AND THEIR CONTROL.

V W Ihlemann

Gesunde Pflanzen 19(5):107-109

May 1967 464.8 G33

Bis(((3,5-dimethylmorpholino)carbonyl)methyl)-4,4'-bipyridin i, Chemical control (weeds), Chrysanthemum segetum, Marshes, Methyl-4-chlorophenoxyacetic acid, 2-, Phenoxy acid compounds.

14528-69

IMPROVED METHOD FOR WEED CONTROL IN POTATOES ON EXTREMELY MARSHY SOIL. (TEST EXPERIENCES IN UPPER BAVARIA 1965-67). (GE)

H Kees E J Wendland

Gesunde Pflanzen 20(5):93,96

May 1968 464.8 G33

Biochemistry, Chemical control (weeds), Herbicides, Marshes, Methodology, Plant physiology, Potatoes, Spraying.

BIBLIOGRAPHY

14529-69

SIMULTANEOUS CONTROL OF APERA SPICA VENTI AND BROAD LEAF WEEDS THROUGH SOIL HERBICIDES. (TEST RESULTS IN UPPER BAVARIA 1965-1967). (GE)

H Kees E J Wendland

Gesunde Pflanzen 20(4):80-84

Apr 1968 464.8 G33

Apera spica-venti, Biochemistry, Chemical control (weeds), Crop yields, Herbicides, Statistical analysis, Tables (data), Whcat.

14530-69

CHEMICALS THAT SHOW--CROPS' CO-EXISTENCE WITH WEEDS IS NOT NECESSARY.

V S Mani

Indian Farming 16(10):30-31

Jan 1967 22 IN283

Chemical control (weeds), Crop yields, Methyl-4-chlorophenoxy)butyric acid, 4-(2-, Propazine, Simazine, Weed control.

Chemical control of weeds in various crops in India are listed.

14531-69

MITES.

F Maramoto

Hawaii Anthurium Conf Proc 1:15

Feb 1968 S544.3.H3H3

Anthurium, Brevipalpus obovatus, Brevipalpus phoenicis, Hemitarsonomus latus, Larvae, Leaves, Plant injuries, Research, Tetranychus telarius.

14532-69

WEED CONTROL IN VEGETABLES.

A D Mears

Agr Gaz New S Wales 78(PT 3):160-161

Mar 1967 23 N472

Chemical control (weeds), Crops, Cultural control (weeds), Herbicides, Soil properties.

Selection of herbicides according to soil type, weeds, test crop, seasonal conditions, and residues is discussed.

14533-69

SOME FACTORS AFFECTING THE DISAPPEARANCE OF TORDON IN SOIL.

R W Moffat

Down Earth 23(4):6-10 REF SPRING

1968 381 D75

Biochemistry, Biological assay, Chemical control (weeds), Degradation, Dosage, Foliar application, Herbicides, New Zealand, Picloram, Rainfall, Soil leaching, Soil series, Spraying.

14534-69

PRE-EMERGENCE APPLICATION OF 2,4-D-ESTER TO WHEAT (TRITICUM VULGARE).

P C Nel

S Afr J Agr Sci 10(1):283-284

Mar 1967 24 SU3

Chemical control (weeds), D, 2,4-, Herbicides, Insecticide application, Phenoxy acid, Preemergence, Wheat.

14535-69

GENERAL NON-SELECTIVE WEED CONTROL WITH MONOSODIUM ACID METHANE ARSONATE (MSMA) BASED MIXTURES IN RUBBER PLANTATIONS.

Rubber Res Inst Malaya Plant Bull (95):52-55

Mar 1968 78.9 R825

Arsenic compounds, Catalogs, Chemical control (weeds), Herbicides, Hevea.

14536-69

DEVELOPMENTAL TRENDS IN THE CHEMICAL CONTROL OF WEEDS IN BEETS. (GE)

H Schmidt J Meyer

Gesunde Pflanzen 20(3):58-60,62-64

Mar 1968 464.8 G33

Beets, Chemical control (weeds), Herbicides, Humus, Methyl m-hydroxycarbanilate, Pesticide application, Propynyl N-phenylcarbamate, Spraying, Triallate.

14537-69

STAM F-34 CAN KILL THE WEEDS OF GORA PADDIES.

M S Subba Rao P C Agrawal

Indian Farming 16(4):6,37

Jul 1966 22 IN283

Chemical control (weeds), Crop yields, Herbicides, Rice, Stam, Weed control.

14538-69

SYSTEMATIC WEED CONTROL IN GRAPE CULTURE. RESULTS OF A FIRST FOUR YEAR PERIOD OF EXPERIMENTATION. (IT)

F Valenza

Giornate Fitopatol 551-556 REF

26 Mar 1967 SB599.G5

Chemical control (weeds), Diuron, Grape vineyards, Paraquat.

14539-69

THE CONTROL OF WILD FOXTAIL GRASS IN WINTER WHEAT AS WELL AS THE PREVENTION OF WEATHER TRODDEN GRAIN. (GE)

N Weiler

Gesunde Pflanzen 19(5):109-110

May 1967 464.8 G33

Alopecurus, Chemical control (weeds), Cycocel, Grain, Herbicides, Plant injuries, Plant protection, Storage, Triazine, Urea, Weather, Wheat.

OTHER PESTS

14540-69

THE ECONOMIC INCIDENCE OF FIELD VOLE CONTROL IN FRANCE.

L Bouyx

Int Conf Rodents Rodenticides (SER

A)41):93,95,97

Jan 1967 QL1.152

Crop losses, Economics, Field mice, Pest control, Plant injuries, Plant protection. Original Fr.- pages 92,94,96.

14541-69

MUSK, BROWN RATS AND HARVEST MICE AS PESTS IN MAIZE. (GE)

H Engel

Gesunde Pflanzen 20(3):41-46

Mar 1968 464.8 G33

Atrazine, Chemical control (pests), Corn, Digitaria sanguinalis, Economics, Field crops, Grain, Harvest mice, Muskrats, Panicum, Rats, Rodenticides, Simazine, Spraying, Wildlife pests.

14542-69

RIDDING RICE FIELDS OF RATS.

C Ramakrishnan V Jayaraman B Velayutham

Indian Farming 16(7):25,27,52

Oct 1966 22 IN283

Animal traps, Chemical control (pests), Crop yields, Parathion, Rats, Rice.

14543-69

THE CAUSES AND DYNAMICS OF POPULATION EXPLOSIONS OF M. ARVALIS: A SURVEY OF CURRENT FRENCH RESEARCH.

F Spitz

Int Conf Rodents Rodenticides (SER

A)41):97,99,101,103,105

Jan 1967 QL1.152

Population, Research, Surveys. Original Fr.- 96,98,100,102,104.

14544-69

COMMENTS ON RAT-FREE TOWNS.

H Wichmand

Int Conf Rodents Rodenticides (SER A)(41):89,91

Jan 1967 QL1.152

Pest control, Public health, Rats, Research. Original Fr.- pages 88,90.

LIVESTOCK PROTECTION

14545-69

FIVE YEARS' RESEARCH WITH A HATCHERY SANITATION PROGRAM IN MAINE.

H L Chute M Gershmann E S Barden
Maine Agr Exp Sta Bull (661):25P

Jul 1968 100 M28S (1)

Bacteria, Chicks, Eggs, Equipment, Fungi, Microbiology, Microorganisms, Poultry hatcheries, Poultry industry, Research, Sanitation.

14546-69

TUBERCULOSIS IN THREE HERDS WITH ACCESS TO THE SAME OPEN SEWER.

R Ford

State Vet J 19(57):216-225

Sep 1964 SF601.S8

Cattle, Dairy farms, Research, Sewage, Tuberculosis, Water pollution.

14547-69

PIPERAZINE-CARBON DISULFIDE COMPLEX. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.

H L Ley

Fed Regist 33(240):18408-18409

11 Dec 1968 L1.451

Accident prevention, Biochemistry, Carbon disulfide, Dosage, Drug therapy, Piperazine, Research, Veterinary medicine.

14548-69

THE INSECT ECOLOGY OF OLD-FIELD RED PINE PLANTATIONS IN CENTRAL ONTARIO, I. DESCRIPTION OF THE STUDY AREA. III. SOIL-SURFACE FAUNA AS INDICATORS OF STAND CHANGE.

J L Martin

Entomol Soc Ontario Proc 95:70-102 REF

1966 420 ON8

Arthropoda, Histology, Insect ecology, Pinus, Plant physiology, Research, Sampling (statistics), Soil fauna.

14549-69

LEBANON.

C N Saunders

State Vet J 19(57):226-229

Sep 1964 SF601.S8

Geography, Poultry, Research, Veterinary laboratories.

14550-69

ARE SCARECROWS USEFUL AGAINST BIRD DAMAGE.

H Schonbeck

Pflanzenarzt 21(4):48

01 Apr 1968 464.9 P482

Birds, Crows, Harvesting, Phosphorus, Seed planting.

14551-69

SPEED THE KEY TO PRESERVING HIDES.

G W Vivian

Spur 1(2):35,37

Nov 1967 S544.5.A83S6

Agricultural industries, Bacteria, Bactericides, Boric acid, Brining, Calcium phosphates, Curing, Drying, Freeze drying, Hides, Naphthalene, Storage.

DISEASES

14552-69

A STUDY OF CONTAGIOUS CAPRINE PLEUROPNEUMONIA.

A E D Abdulla E P Lindley

Bull Epizoot Dis Afr 15(4):313-315

Dec 1967 41.8 B872

Bacteriology, Cattle, Contagious bovine pleuropneumonia, Etiology, Goats, Infectious diseases, Livestock diseases, *Mycoplasma mycoides*, Sheep.

14553-69

ISOLATION OF BUNYAMWERA-GROUP VIRUSES FROM WISCONSIN MOSQUITOES.

R O Anslow W H Thompson P H Thompson G R Defoliart O Papadopoulos Et Al

Amer J Trop Med Hyg 18(4,PT 1):599-608

Jul 1969 448.8 AM326

Aedes, Bunyamwera viruses, Hemagglutination-inhibition test, Mansonia, Mice, Neutralization test, Surveys.

14554-69

BOVINE VIRUS DIARRHEA IN ITALY. II. REPRODUCTION OF THE DISEASE.

G Avellini G Castrucci B Morettini V Cilli

Arch Gesamte Virusforsch 24(1-2):65-75 REF

Jun 1968 448.3 AR23

Antigens, Bovine virus diarrhea virus, Cattle, Poxviruses, Virus diseases (animals), Virus production.

14555-69

ISOLATION AND CHARACTERIZATION OF MYCOPLASMA ARGININI: SPEC. NOV.

M F Barile R A DelGiudice T R Carski C J Gibbs J A Morris

Soc Exp Biol Med Proc 129(2):489-494 REF

Nov 1968 442.9 SO1

Bacteria, Culture media, Mycoplasma, Mycoplasma arginini, Physiology, Taxonomy.

14556-69

IDENTIFICATION OF HOG-CHOLERA VIRUS IN FROZEN PORK IMPORTED FROM CHINA. (FR)

C Battelli G Caporale F Gramenzi E Nardi

Vet Ital 18(11-12):658-668

Nov 1967 41.8 C87

Food contamination, Foreign trade, Frozen food, Hog cholera virus, Livestock diseases, Pork, Swine, Virus diseases (animals).

14557-69

AN OUTBREAK OF PHOTOSENSITISATION IN KARAMOJONG SHEEP AT ENTEBBE.

O Bwamamoi

Bull Epizoot Dis Afr 15(4):379-388

Dec 1967 41.8 B872

Animal histology, Buckwheat, Hypericum, Lantana camara, Photosensitization, Sheep.

14558-69

ISOLATION OF TOXOPLASMA GONDII FROM SWINE AND CATTLE. FOLLOWING PESTICIDE TREATMENTS.

G Catar L Bergendi R Holkova

J Parasitol 55(5):952-955 REF

Oct 1969 448.8 J824

Azinphosethyl, Brain, Cattle, Livestock diseases, Muscles, Necrosis, Nitrogen, Peaches, Pesticides, Plant physiology, Sugars, Swine, Thiocarbamates, Toxoplasma gondii, Ziram. English abstract.

14559-69

A HISTOLOGICAL STUDY OF THE EFFECTS OF ENZOOTIC ABORTION OF EWES VIRUS IN THE LACTATING BOVINE MAMMARY GLAND.

A H Corner G L Bannister D P Hill

Can J Comp Med Vet Sci 32(1):372-381

Jan 1968 41.8 C162

Abortion, Animal histology, Cattle, Immunization, Lactation, Livestock diseases, Mammary glands, Mastitis, Necrosis, Sheep, Udders, Virus diseases (animals).

14560-69

IDENTIFICATION OF AEROMONADS IN FURRED ANIMALS. (DA)

H K Dahle K Nordstoga

Acta Vet Scand 9(1):65-70

1968 41.8 AC87

Aeromonas, Agar, Animal diseases, Bacteria, Enzymes, Fur-bearing animals, Infectious diseases, Injections, Serum. Norwegian and German summaries

14561-69

TITRATION OF SALMONELLA ABORTUS-OVIS STRAINS WITH CHICK EMBRYOS AND WHITE MICE.

R Dhawedkar G Kamburov N Mancheva

Bulg Akad Nauk Dokl 21(5):501-503

1968 512 SO2

Animal diseases, Chicks, Embryology, Listeria monocytogenes, Mice, *Salmonella abortusovis*, Volumetric analysis.

14562-69

AN OUTBREAK OF ANTHRAX IN MINK.

B Dick R Macrae

State Vet J 19(57):214-215

Sep 1964 SF601.S8

Anthrax, Antibiotics, Diet, Minks, Research.

14563-69

RELATIONSHIP OF ELECTROPHORETIC MOBILITY TO THE SIALIC ACID CONCENTRATION OF ERYTHROCYTES IN BOVINE ANAPLASMOSIS.

A R Dommerg G T Dimopoulos

Amer J Vet Res 28(125):1173-1177 REF

Jul 1967 41.8 AM3A

Anaplasmosis, Biochemistry, Cattle, Electrophoresis, Erythrocytes, Sialic acids.

14564-69

SEROLOGIC DIAGNOSIS OF COLORADO TICK FEVER. A COMPARISON OF COMPLEMENT-FIXATION, IMMUNOFLUORESCENCE, AND PLAQUE-REDUCTION METHODS.

R W Emmons D V Dondero V Devlin E H Lenette

Amer J Trop Med Hyg 18(5):796-802

Sep 1969 448.8 AM326

Colorado tick fever virus, Diagnosis, Immunofluorescence, Plaque, Serological tests.

14565-69

OCURRENCE OF TICK-BORNE ENCEPHALITIS VIRUS NEUTRALIZING ANTIBODY IN AQUATIC BIRDS IN CENTRAL EUROPE.

E Ernek O Kozuch K Hudec S Urban

Acta Virol 11(6):562

Nov 1967 448.3 AC85

Antibodies, Aquatic birds, Encephalitis, Insect vectors, Ixodes, Virus diseases (animals).

14566-69

FIBRINOGEN CONTENT AND FIBRINOLYTIC ACTIVITY OF PLASMA FROM DOGS INFECTED WITH *LEPTOSPIRA CANICOLA*.

D R Finco D G Low

Amer J Vet Res 29(10):2037-2040 REF

Oct 1968 41.8 AM3A

Dogs, Fibrinogen, *Leptospira canicola*, Metabolism, Serological tests.

14567-69

EFFECT OF BOVINE COCCIDIOSIS ON BLOOD SERUM SODIUM AND POTASSIUM LEVELS OF CALVES.

P R Fitzgerald

Amer J Vet Res 28(124):667-670

May 1967 41.8 AM3A

Blood chemistry, Blood serum, Calves, Coccidiosis, *Eimeria*, Potassium, Sodium.

14568-69

THE PREVALENCE OF *BABESIA BOVIS* (*BABESIA ARGENTINA*) IN THE BRAINS OF SLAUGHTER CATTLE IN NORTHERN NIGERIA.

C Folkers H Kuil N M Peric

Bull Epizoot Dis Afr 15(4):359-360

Dec 1967 41.8 B872

Anemia, Animal physiology, *Babesia argentina*, *Babesia bigemina*, *Babesia bovis*, Brain diseases, Cattle, Erythrocytes, Fever, Hcmoglobinuria, Insect vectors, *Ixodes ricinus*, Livestock diseases, *Piroplasmosis*, Protozoa, Slaughtering.

14569-69

TRANSMISSION OF ATTENUATED AND VIRULENT BLUETONGUE VIRUS WITH CULICOIDES VARIIPENNIS INFECTED ORALLY VIA SHEEP.

N M Foster R H Jones A J Lucdke
Amer J Vet Res 29(2):275-279

Feb 1968 41.8 AM3A

Bluetongue virus, Culicoides, Disease transmission, Epizootic diseases, Sheep.

14570-69

PLAQUE CHARACTERISTICS OF FOUR CLASSES OF BOVINE VIRUSES.

J B Gratzck R F Roscnbusch G M Buening
Amer J Vet Res 28(124):641-646

May 1967 41.8 AM3A

Bovine entroviruses, Bovine rhinovirus, Bovine virus diarrhea virus, Methodology, Parainfluenza-3 virus, Plaque assay.

14571-69

SPINY BURR GRASS--A SERIOUS AND INCREASING PROBLEM.

K R Green

Agr Gaz New S Wales 78(PT 10):578-579

Oct 1967 23 N472

Cattle, Cenchrus pauciflorus, Injuries, Pastures, Weeds.

Warnings to check for spiny burr grass, Cenchrus pauciflorus an injurious grass of cattle pastures in Australia are given.

14572-69

FURUNCULAR TUMBU FLY MYIASIS OF MAN IN GABON, EQUATORIAL AFRICA.

S Gunther

J Trap Med Hyg 70(7):169-174 REF

Jul 1967 448.8 J827

Animal diseases, Cordylobia anthropophaga, Diptera, Furunculosis, Immunity, Insect vectors, Myiasis, Tropical medicine.

14573-69

STUDIES ON A NEW INTRAMUSCULAR HEMATINIC FOR PIGLET ANAEMIA. (DA)

K G Hogberg S Lindvall K Orth B Thafvelin K Uthne

Aca Vet Scand 9(1):10-32 REF

1968 41.8 AC87

Absorption, Anemia, Baby pigs, Citric acid, Deficiency diseases, Dextrans, Drug therapy, Erythrocytes, Glucitol, Heme, Hemoglobin, Iron, Lactic acid bacteria, Livestock diseases, Muscles, Serum, Swine. German summary

14574-69

EQUINE PIROPLASMODIOSIS: INTRAERYTHROCYTIC DEVELOPMENT OF BABESIA CABALLI (NUTTALL) AND BABESIA EQUI (LAVERAN).

A A Holbrook A J Johnson P A Madden
Amer J Vet Res 29(2):297-303 REF

Feb 1968 41.8 AM3A

Babesia caballi, Babesia equi, Erythrocytes, Horses, Life cycle, Piroplasmosis.

14575-69

GEOGRAPHICAL DISTRIBUTION MAPS OF ANIMAL DISEASES IN AFRICA, 1966.

Bull Epizoot Dis Afr 15(4):411-414 REF MAP

Dec 1967 41.8 B872

Livestock diseases, Lumpy skin disease, Salmonellosis, Tuberculosis, Zoogeography.

14576-69

ATTENUATION OF HOG CHOLERA VIRUS IN THE CARRIER CELL STRAINS ESTABLISHED FROM KIDNEYS OF PIGS EXPERIMENTALLY INFECTED WITH THE VIRULENT VIRUS.

H Izawa M Sockawa

Amer J Vet Res 28(127):1661-1669

Nov 1967 41.8 AM3A

Hog cholera virus, Immunization, Kidneys, Swine, Tissue culture.

14577-69

BLOOD CHANGES ASSOCIATED WITH LOCOWEED POISONING.

L F James W Binns

Amer J Vet Res 28(125):1107-1110 REF

Jul 1967 41.8 AM3A

Aminotransferases, Astragalus, Blood proteins, Liver, Poisonous plants, Sheep.

14578-69

BRUCELLOSIS VACCINATION IS NOW COMPULSORY.

S Jamison

New Zeal J Agr 114(1):11-13

Jan 1967 23 N48J

Brucella abortus vaccines, Cattle, Immunization, Legislation.

The author discusses the law requiring all New Zealand farmers to vaccinate their cattle against brucellosis, including equipment and techniques to be employed.

14579-69

SEX DIFFERENCES IN EMBRYONIC RESPONSE TO EIMERIA TENELLA INFECTION.

T K Jeffers G E Wagenbach

J Parasit 55(5):949-951 REF

Oct 1969 448.8 J824

Chicks, Cytoplasm, Eimeria tenella, Embryos, Hemagglutination, Insect biochemistry, Insect diseases, Insect histology, Mortality, Polyhedroses, Poultry diseases, Bombyx mori, Viruses.

14580-69

THE PROTECTION OF A SMALL GROUP OF NIGERIAN TRADE CATTLE FROM TRYPANOSOMIASIS USING SAMORIN.

W J Jones-Davies

Bull Epizoot Dis Afr 15(4):323-335

Dec 1967 41.8 B872

Cattle, Drug therapy, Glossina morsitans, Glossina palpalis, Glossina tachinoides, Insect vectors, Isometamidium chloride, Livestock diseases, Microfilariae, Piroplasmosis, Trypanosoma brucei, Trypanosoma congolense, Trypanosoma vivax, Trypanosomiasis.

14581-69

ARBOVIRUS STUDIES IN THE OHIO-MISSISSIPPI BASIN, 1964-1967. I. INTRODUCTION.

R H Kokernot C A Brandy

Amer J Trap Med Hyg 18(5):743-749 MAP REF

Sep 1969 448.8 AM326

Arboviruses, Birds, Culicidae, Hemagglutination, Surveys.

14582-69

ARBOVIRUS STUDIES IN THE OHIO-MISSISSIPPI BASIN, 1964-1967. VII. LONE STAR VIRUS, A HITHERTO UNKNOWN AGENT ISOLATED FROM THE TICK AMBLYOMMA AMERICANUM (LINN.).

R H Kokernot C H Calisher L J Stannard J Hayes
Amer J Trap Med Hyg 18(5):789-795 REF

Sep 1969 448.8 AM326

Amblyomma americanum, Antibodies, Arboviruses, Sodium deoxycholate, Surveys, Virology.

14583-69

ARBOVIRUS STUDIES IN THE OHIO-MISSISSIPPI BASIN, 1964-1967. V. TRIVITTATUS AND WESTERN EQUINE ENCEPHALOMYELITIS VIRUSES.

R H Kokernot J Hayes D H M Chan K R Boyd

Amer J Trap Med Hyg 18(5):774-778 REF

Sep 1969 448.8 AM326

Antibodies, Arboviruses, Surveys, Western equine encephalomyelitis virus.

14584-69

A CASE OF OVINE DERMATOMICOSIS PRODUCED BY TRICHOPHYTON VERRUCOSUM. (SP)

M B V Kolar De P C Bonatto De

La Plata Univ Nac Fac Cien Vet Rev 8(18):35-38 REF

Jan 1966 41.9 L313

Fungi, Ringworm, Sheep, Trichophyton verrucosum. French summary

14585-69

THE TEMPERATURE REQUIREMENTS FOR INTERFERON PRODUCTION IN CELLS STIMULATED BY NEWCASTLE DISEASE VIRUS OR MICROBIAL AGENTS IN VITRO.

V Lackovic L Borcicky D Sikl L Masler S Bauer

Acta Viral 11(6):500-505 REF

Nov 1967 448.3 AC85

Animal diseases, Antigens, Bacteriology, Candida albicans, Cytology, Escherichia coli, Interferon, Leukocytes, Mice, Microbiology, Newcastle disease virus, Salmonella typhimurium, Temperature, Virology.

14586-69

SOME PHYSICAL PROPERTIES OF PURIFIED NEUROTROPIC FOOT-AND-MOUTH DISEASE VIRUS.

H Liebermann H Gralher

Acta Viral 12(2):181-182

May 1968 448.3 AC85

Chemical reactions, Foot-and-mouth disease virus, Neurotropic viruses, Physiology, Picornaviruses, Sedimentation, Ultraviolet therapy, Virology, Virus diseases (animals).

14587-69

AN IMMUNITY TEST IN CATTLE TO COMPARE TWO CONTAGIOUS BOVINE PLEUROPNEUMONIA VACCINES.

E P Lindley

Bull Epizoot Dis Afr 15(4):307-311 REF

Dec 1967 41.8 B872

Agar, Bacteriology, Cattle, Contagious bovine pleuropneumonia, Fermentation, Immunity, Infectious diseases, Livestock diseases, Mycoplasma mycoides, Vaccines.

14588-69

SEROLOGICAL RESPONSE IN CATTLE TO EAST COAST FEVER (THEILERIA PARVA INFECTION) AS MEASURED BY THE INDIRECT FLUORESCENT ANTIBODY TEST.

K F Lohr J P J Ross

Res Vet Sci 10(5):453-460 REF

Sep 1969 41.8 R312

Antibodies, Antigens, Cattle, Fluorescent antibody technic, Insect biology, Insect taxonomy, Serological tests, Spodoptera, Theileria parva, Zoogeography.

14589-69

SOME ASPECTS OF THE ETIOLOGY OF ENZOOTIC ICTERUS (GEELSIEKTE) AND TRIBULOSIS OVIS (GEELDIKKOP).

G N Louw C W P Steenkamp E L Steenkamp

S Afr J Agr Sci 10(1):215-228 MAP REF

Mar 1967 24 SU3

Jaundice, Liver, Plants, Selenium poisoning, Sheep, Toxicology, Tribulosis.

14590-69

ANTIBODIES TO LEPTOSPIRAL SEROTYPES IN SERA OF NORTH QUEENSLAND CATTLE.

M H Lucas

Queensland J Agr Anim Sci 23(2):309-315 MAP

Jun 1966 23 Q37

Antibodies, Cattle, Leptospira, Serological tests, Zoogeography.

14591-69

ENTEROTOXAEMIA IN SHEEP ON DRY FEED.

J F Macadam P T Diplock

Agr Gaz New S Wales 78(PT 12):733-734

Dec 1967 23 N472

Bacterial diseases (animals), Clostridium perfringens, Enterotoxemia, Feed, Immunization, Sheep.

Outbreaks of enterotoxemia in sheep of Australia, the causative agent, Clostridium perfringens, and vaccination procedures are discussed.

14592-69

SKIN DISEASES OF HORSES.

W Marbach

Agr Gaz New S Wales 78(PT 12):738-741

Dec 1967 23 N472
Culicoides, Horses, Mange, Photosensitization, Ringworm, Skin diseases, Urticaria.
Treatment of skin diseases of horses in Australia is discussed.

14593-69
IN VIVO DEMONSTRATION OF LABILITY OF HOG CHOLERA VIRUS TO LIPOLYTIC AGENTS.
G E McKissick D P Gustafson
Amer J Vet Res 28(125):909-914 REF
Jul 1967 41.8 AM3A
Chloroform, Ethyl ether, Hog cholera virus, Immunochromatography, Inactivating agents, Lipids.

14594-69
DIAPLACENTARIAN IMMUNITY TO FOOT-AND-MOUTH VIRUS IN NURSING RATS: CORRELATION AND REGRESSION. (SP)
E S Menchaca A S Sequeira
La Plata Univ Nac Fac Cienc Vet Rev 8(18):13-22 REF
Jan 1966 41.9 L313
Biological transport, Foot-and-mouth disease virus, Immunity, Nursing, Picornaviruses, Placenta, Rats, Virus diseases (animals).

14595-69
STUDY OF THE PRACTICABILITY OF VARIOUS DIAGNOSTIC METHODS IN THE DEMONSTRATION OF SWINE FEVER VIRUS OF HIGH AND LOW VIRULENCE IN ORGANS OF EXPERIMENTALLY INFECTED PIGS. (DA)
A Meyling K Schjerning-Thiesen
Acta Vet Scand 9(1):50-64 REF
1968 41.8 AC87
Agar, Animal physiology, Complement fixation, Diagnosis, Fluorescent antibody technic, Hog cholera, Injections, Livestock diseases, Swine, Tissue culture, Virus diseases (animals), Viscera. German summary

14596-69
EVOLUTION OF THE ANTIBODY CURVE IN ANIMALS EXPERIMENTALLY INOCULATED WITH AEQUI/URUGUAY/540/63. (SP)
R E S Moreira H C Tosi E F Vallone R M Canto
La Plata Univ Nac Fac Cienc Vet Rev 8(18):63-67 REF
Jan 1966 41.9 L313
Agglutination test, Antibodies, Equine influenza viruses, Erythrocytes, Influenza, Injections, Virus diseases (animals). French summary

14597-69
NAIROBI SHEEP DISEASE: A STUDY OF ITS PATHOGENESIS IN SHEEP, GOATS AND SUCKLING MICE.
G M Mugera S Chema
Bull Epizoot Dis Afr 15(4):337-354
Dec 1967 41.8 B872
Animal histology, Animal physiology, Erythrocytes, Gastroenteritis, Goats, Hematology, Hemoglobin, Kidneys, Lesions, Leukocytes, Liver, Livestock diseases, Mice, Nairobi sheep disease virus, Pathogenesis, Sheep, Virus diseases (animals). Abstract: In sheep and goats, the glomerulo-tubular nephritis (kidney), hyaline degeneration and fragmentation of myocardial fibers, and coagulative necrosis of gall bladder were consistent lesions. In mice, liquefactive necrosis characterised by focal cystic areas with haemorrhages and lymphocytic infiltration, especially around blood vessels, all these characteristics are of Nairobi Sheep Diseases in these animals.

14598-69
PSEUDOMONAS INFECTIONS IN MINK WITH SPECIAL REFERENCE TO PSEUDOMONAS VASCULITIS IN PULMONARY LESIONS. (DA)
K Nordstoga
Acta Vet Scand 9(1):33-40
1968 41.8 AC87
Anemia, Animal histology, Bacteria, Exudates, Hemorrhage, Infectious diseases, Laboratory animals, Leukocytes, Minks, Pseudomonas, Tissues. German and Norwegian summaries.

14599-69
EXPERIMENTAL STUDIES ON ASPERGILLOSIS (1). (JA)
S Ogawa M Kuroda T Nakajima F Ito M Yamamoto K Tatsuyama
Mycol Soc Jap Trans 8(2):87-91
01 Sep 1967 451 N622
Animal diseases, Aspergillosis, Fungi, Mycology, Mycosis.

14600-69
HISTOPATHOLOGIC AND HEMATOLOGIC CHANGES IN MORIBUND STAGES OF CHICKS INFECTED WITH T-VIRUS.
L D Olson
Amer J Vet Res 28(126):1501-1507
Sep 1967 41.8 AM3A
Chicks, Hematology, Histology, Liver, Mortality, Poultry, Spleen, Virus diseases (animals).

14601-69
EXPERIMENTAL INACTIVATED-VIRUS HOG CHOLERA VACCINES: INDUCTION PERIOD OF IMMUNITY.
E I Pilchard
Amer J Vet Res 28(125):915-923 REF
Jul 1967 41.8 AM3A
Bordetella, Hog cholera vaccines, Immunity, Inactivating agents, Swine.

14602-69
VARIABLE RESISTANCE OF COWS TO STREPTOCOCCUS AGALACTIAE MASTITIS.
W D Pounden N A Frank J V Bateman J Blydenstein
Amer J Vet Res 28(127):1735-1742 REF
Nov 1967 41.8 AM3A
Cattle, Immunity, Mastitis, Streptococcus agalactiae.

14603-69
MULTIPLICATION OF TRIBEC VIRUS IN CHICK EMBRYO CELL CULTURES: CYTOPATHIC CHANGES AND IMMUNOFLUORESCENCE.
J Rajcany M Gresikova
Acta Virol 11(6):527-532
Nov 1967 448.3 AC85
Cells, Chick embryos, Cytology, Fluorescence microscopy, Fluorescent antibody technic, Immunology, Tribec virus, Virology, Virus diseases (animals).

14604-69
LYOPHILIZING FOOT-AND-MOUTH DISEASE VIRUS AT LOW DRYING TEMPERATURE.
H Ramyar E Traub
Amer J Vet Res 28(126):1605-1608 REF
Sep 1967 41.8 AM3A
Drying, Foot-and-mouth disease virus, Lyophilization, Storage, Temperature, Virus diseases (animals).

14605-69
ANTIBODY IN EXPERIMENTALLY INFECTED SHEEP AND ANTI FOOT-AND-MOUTH DISEASE VACCINES. (SP)
S Rivenson M Segura M M Zakin
La Plata Univ Nac Fac Cienc Vet Rev 8(18):53-58
Jan 1966 41.9 L313
Antibodies, Foot-and-mouth disease, Injections, Livestock diseases, Sheep, Vaccines, Virus diseases (animals). French summary

14606-69
IMMUNOLOGICAL RESPONSE IN COWS TO MYCOPLASMA BOVIGENITALIUM, STRAIN 1836.
D H Roberts
J Hyg 66(4):585-593 REF
Dec 1968 449.8 J82
Cattle, Immunization, Mycoplasma, Serological tests.

14607-69
A COMPARISON OF THE HAEMAGGLUTINATION-INHIBITION AND NEUTRALISATION

TEST IN THE ASSAY OF RINDERPEST ANTIBODIES IN CATTLE.
L W Rose D Zwari B Kouwenhoven
Bull Epizoot Dis Afr 15(4):301-305 REF
Dec 1967 41.8 B872
Antibodies, Biological assay, Cattle, Hemagglutination-inhibition test, Immunochemistry, Livestock diseases, Myxoviruses, Neutralization test, Rinderpest, Virus diseases (animals).

14608-69
WARFARIN TREATMENT OF MICE BEARING AUTOCHTHONOUS TUMORS: EFFECT ON SPONTANEOUS METASTASES.
J J Ryan A S Ketcham H Wexler
Science 162(3861):1493-1494 REF
27 Dec 1968 470 SCI2
Drug therapy, Lungs, Metastasis, Mice, Mortality, Neoplasms, Warfarin.

14609-69
VARIFICATION OF ANTIBODIES OF NEWCASTLE VIRUS IN RATS INOCULATED WITH DIFFERENT TYPES OF EXPERIMENTAL VACCINES. (SP)
R M Scapin B Epstein
La Plata Univ Nac Fac Cienc Vet Rev 8(18):25-27 REF
Jan 1966 41.9 L313
Antibodies, Injections, Newcastle disease vaccines, Newcastle disease virus, Rats, Vaccines, Virus diseases (animals).

14610-69
EFFECTS OF HUMORAL AND CELLULAR PHASES OF ACUTE INFLAMMATION IN THE BOVINE MAMMARY GLAND ON AEROBACTER AEROGENES INTRODUCED EN MASSE AND ON LEUKOCYTES IN MILK.
O W Schalm J Lasmanis N C Jain
Amer J Vet Res 28(126):1251-1256
Sep 1967 41.8 AM3A
Aerobacter aerogenes, Cattle, Immunology, Mammary glands, Mastitis.

14611-69
RELATIONSHIP OF PLAQUE SIZE AND VIRULENCE FOR CHICKENS OF 14 REPRESENTATIVE NEWCASTLE DISEASE VIRUS STAINS.
G M Schloer R P Hanson
J Virology 2(1):40-47 REF
Jan 1968 QR360.J6
Chickens, Newcastle disease virus, Virus diseases (animals).

14612-69
USE OF SODIUM ALGINATE ADJUVANT IN IMMUNIZATION AGAINST EQUINE INFLUENZA.
I L Shechmeister T Aeschliman W G Kammlade
Amer J Vet Res 28(126):1373-1378 REF
Sep 1967 41.8 AM3A
Equine influenza, Horses, Immunization, Methodology, Sodium alginate, Vaccines.

14613-69
CONTAGIOUS BOVINE PLEUROPNEUMONIA IN WILDLIFE.
M Shifrine C H Domermuth
Bull Epizoot Dis Afr 15(4):319-321
Dec 1967 41.8 B872
Bacteriology, Complement fixation, Contagious bovine pleuropneumonia, Infectious diseases, Mycoplasma mycoides, Wildlife diseases.

14614-69
COMPARATIVE MORPHOLOGIC FEATURES OF BABESIA CABALLI AND BABESIA EQUI.
C F Simpson W W Kirkham J M Kling
Amer J Vet Res 28(127):1693-1697
Nov 1967 41.8 AM3A
Babesia caballi, Babesia equi, Electron microscopy, Erythrocytes, Histology, Horses, Piroplasmosis.

14615-69
HEMAGGLUTINATION AND HEMOLYSIS OF ERYTHROCYTES OF UNRELATED SPECIES

OF ANIMALS BY THE BLACKSBURG STRAIN OF NEWCASTLE DISEASE VIRUS.
M Slifkin L Thompson
Amer J Vet Res 28(124):819-823 REF
May 1967 41.8 AM3A
Erythrocytes, Ferrets, Frogs, Hemagglutination, Newcastle disease virus, Turtles.

14616-69
MORPHOLOGIC FEATURES OF HAEMOBARTONELLA FELIS.
E Small M Ristic
Amer J Vet Res 28(124):845-851 REF
May 1967 41.8 AM3A
Acridine dyes, Blood parasites, Cats, Electron microscopy, Fluorescent antibody technic, Haemobartonella, Histology.

14617-69
VACCINATION AGAINST LEPTOSPIROSIS: PROTECTION OF HAMSTERS AND SWINE AGAINST RENAL LEPTOSPIROSIS BY KILLED BUT INTACT GAMMA-IRRADIATED OR DIHYDROSTREPTOMYCIN-EXPOSED LEPTOSPIRA POMONA.
O H V Stalheim
Amer J Vet Res 28(127):1671-1676 REF
Nov 1967 41.8 AM3A
Gamma rays, Hamsters, Immunization, Leptospira pomona, Swine, Vaccines.

14618-69
VARIATIONS IN ISOLATIONS OF PATHOGENIC BACTERIA FROM THE UDDERS OF COWS DURING A SIX-MONTH PERIOD.
W H Thompson B A Houston
Australian Vet J 44(2):68-71
Feb 1968 41.8 AU72
Livestock diseases, Mastitis, Staphylococcus, Surveys.

14619-69
VIROLOGICAL, HISTOPATHOLOGICAL AND HISTOCHEMICAL BEHAVIOR OF THE CIRIOALANTOIS OF CHICK EMBRYOS INOCULATED WITH AEQUI/URUGUAY/540/1963 VIRUS. (SP)
E F Vallon R M Canto R E S Moreira H C Tosi C A Bauza
La Plata Univ Nac Fac Cien Vet Rev 8(18):69-87 REF
Jan 1966 41.9 L313
Chickens, Embryology, Equine influenza viruses, Histochemistry, Histopathology, Influenza, Injections, Virology, Virus diseases (animals). French summary

14620-69
A STUDY OF THE PHYSICAL PROPERTIES OF THE IMMUNIZING ANTIGEN OF FOOT-AND-MOUTH DISEASE VIRUS AND THE EFFECT OF VARIOUS INACTIVATING AGENTS ON ITS STRUCTURE.
T F Wild F Brown
Arch Gesamte Virusforsch 24(1-2):86-103
Jun 1968 448.3 AR23
Antigens, Biophysics, Foot-and-mouth disease virus, Formaldehyde, Immunization, Inactivating agents, Picornaviruses.

14621-69
THE PERSISTENCE OF DRUG RESISTANCE IN STRAINS OF EIMERIA SPECIES IN BROILER CHICKENS FOLLOWING A CHANGE OF COCIDIOSTAT.
R B Williams
Res Vet Sci 10(5):490-492
Sep 1969 41.8 R312
Chickens, Coccidiostats, Decoquinate, Drug resistance, Drug therapy, Eimeria, Ichneumonidae, Insect taxonomy, Lepidoptera, Parasitic insects, Poultry diseases.

14622-69
INHIBITION OF HOST-CELL PROTEIN AND RIBONUCLEIC ACID SYNTHESIS BY NEWCASTLE DISEASE VIRUS.

D E Wilson
J Virology 2(1):1-6 REF
Jan 1968 QR360.J6
Cells, Newcastle disease virus, Physiology, Proteins, Ribonucleic acid, Virus diseases (animals).

14623-69
EXPERIMENTAL AEROSAL TRANSMISSION OF YABA VIRUS IN MONKEYS.
L G Wolfe
Diss Abstr Sect B 29(5):1740B
Nov 1968 Z5055.U49D53
Aerosols, Infectious diseases, Monkeys, Neoplasms, Virus diseases (animals), Yaba monkey tumor virus.

ARTHROPODS

14624-69
FIRST RECORDS OF EYE-FREQUENTING LEPIDOPTERA FROM INDIA.
W Buttiker
Rev Suisse Zool 74(2):389-398 MAP
Sep 1967 410 R324
Eyes, Insect pests, Livestock, Noctuidae, Pyralidae, Surveys, Zoogeography.

14625-69
CAN YOU AFFORD CATTLE LICE.
F W Evans
Agr Gaz New S Wales 78(PT 6):334-335
Jun 1967 23 N472
Anemia, Cattle, Chemical control (insects), Diagnosis, Haematopinus eurysternus, Linognathus vituli.
The life cycle, prevalence, symptoms, diagnosis, and chemical control of lice on Australian cattle are discussed.

14626-69
ASUNTOL AND NEGUVON IN THE FIGHT AGAINST DOG FLEAS. (SP)
J Galofre J Boero C Torrado
La Plata Univ Nac Fac Cien Vet Rev 8(18):9-12
Jan 1966 41.9 L313
Chemical control (insects), Coumaphos, Dogs, Insect pests, Insecticides, Organophosphorus compounds, Siphonaptera, Trichlorfon.

14627-69
BIOLOGY OF HYPHANTRIA CUNEA DRURY (LEPIDOPTERA: ARCTIIDAE IN JAPAN. I. NOTES ON ADULT BIOLOGY WITH REFERENCES TO THE PREDATION BY BIRDS.
H Hasegawa Y Ito
Appl Entomol Zool 2(2):100-110 REF
Jun 1967 SB599.A6
Biological control (insects), Hyphantria cunea, Insect biology, Predatory birds, Research, Weather.

14628-69
CONTROLLING EXTERNAL PARASITES OF SHEEP.
E S Millar
New Zeal J Agr 114(4):16-21,23,25 REF
Apr 1967 23 N48J
Acarina, Anoplura, Calliphoridae, Chemical control (pests), Life cycle, Melophagus ovinus, Sheep, Sheep-dip.

Ectoparasites of sheep in New Zealand are discussed including notes on their biology and means for control.

14629-69
ECOLOGY OF LICE ON SHEEP. VI. THE INFLUENCE OF SHEARING AND SOLAR RADIATION ON POPULATIONS AND TRANSMISSION OF DAMALINIA OVIS.
M D Murray
Australian J Zool 16(5):725-738
Nov 1968 410 AU73
Anoplura, Damalinia ovis, Insect ecology, Population, Sheep, Sheep shearing, Solar radiation. Part V. in vol. 11:173-182, 1963

PARASITES

14630-69
COMPARATIVE ANTHELMINTIC EFFICIENCIES OF PARBENDAZOLE, THIABENDAZOLE, AND PHENOTHIAZINE IN LAMBS.
D G Bennett
Amer J Vet Res 29(12):2325-2330
Dec 1968 41.8 AM3A

Anthelmintics, Drug therapy, Haemonchus contortus, Lambs, Nematodirus, Phenothiazine, Thiazolidyl-benzimidazole, 2-(4-

14631-69
WARBLE FLY LARVAE CONTROL STUDY.
T D Burgess W C Allan J Mozier
Entomol Soc Ontario Proc 97:117-120
1966 420 ON8
Cattle, Chemicals, Insect control, Insecticides, Larvac, Oestridae, Research.

14632-69
EPIZOOTIOLOGIC FACTORS OF FASCIOLOIDES MAGNA (TREMATODA) IN OREGON AND SOUTHERN WASHINGTON.
V J Dutson J N Shaw S E Knapp
Amer J Vet Res 28(124):853-860 MAP REF
May 1967 41.8 AM3A
Epizootic diseases, Fascioloidiasis, Snails, Surveys, Zoogeography.

14633-69
DEVELOPMENT OF CAENORHABDITIS BRIGGSAE AND HYMENOLEPIS NANA IN INTERCHANGED MEDIA. FRANCE.
E L Hansen A K Berntzen
J Parasitol 55(5):1012-1017 REF
Oct 1969 448.8 J824
Chemical analysis, Culture media, Helminths, Hymenolepis nana, Insect biology, Insect outbreaks, Macrosiphum avenae, Physiology, Rearing, Wheat. English abstract.

14634-69
KERATO-CONJUNCTIVITIS IN CATTLE IN THE PLATEAU AREA OF NORTHERN NIGERIA. A STUDY OF THELAZIA RHODESII AS A POSSIBLE AEIOLOGICAL AGENT.
M M Ikeme
Bull Epizoot Dis Afr 15(4):363-367 REF
Dec 1967 41.8 B872
Cattle, Ceratopogonidae, Eyes, Fulani cattle, Haematopota, Helminthiasis, Insect vectors, Keratoconjunctivitis, Livestock diseases, Microbiology, Microorganisms, Moraxella bovis, Musca domestica, Parasitism, Simulium, Stomoxys calcitrans, Thelazia rhodesii, Thelaziasis.

14635-69
FIELD TRIALS ON THE EFFICACY OF THIABENDAZOLE AGAINST HAEMONCHUS CONTORTUS IN WEST AFRICAN DWARF FOREST SHEEP AND GOATS.
M Irfan
Bull Epizoot Dis Afr 15(4):369-371 REF
Dec 1967 41.8 B872
Anthelmintics, Dosage, Goats, Haemonchus contortus, Helminthiasis, Livestock diseases, Nematodes, Ovulation, Parasitism, Sheep, Thiabendazole.

Abstract: Thiabendazole at a dosage of 66 or 88 milligrams/ kilograms body weight was very effective against natural infestation of Haemonchus contortus in West African dwarf forest sheep and goats.

14636-69
THE CHROMOSOME NUMBERS OF OESOPHAGOSTOMUM COLUMBIANUM CUTICE AND CHABERTIA OVINA FABRICIUS (NEMATODA, STRONGYLATA).
L F Le Jambre
Amer Microscop Soc Trans 87(1):105-106
Jan 1968 440.9 AM33
Chabertia ovina, Chromosomes, Methodology, Oesophagostomum, Sheep.

14637-69
FINE STRUCTURE OF THE INTESTINAL EPITHELIUM OF DIROFILARIA IMMITIS AND CHANGES OCCURRING AFTER VERMICIDAL TREATMENT WITH CAPARSOLATE SODIUM.
 C C Lee J H Miller
J Parasitol 55(5):1035-1045 REF
 Oct 1969 448.8 J824
 Arsenamide, Bacillus thuringiensis, Beauveria bassiana, Biological control (insects), Cytology, Dirofilaria immitis, Electron microscopy, Insect pests.

14638-69
FINE STRUCTURE OF LEUKOCYTES ADHERING TO THE CUTICLE OF ASCARIS SUUM LARVAE. II. POLYMORPHONUCLEAR LEUKOCYTES.
 D J Morseth E J L Soulsby
J Parasitol 55(5):1025-1034
 Oct 1969 448.8 J824
 Acarina, Ascaris lumbricoides suum, Brevipalpus, Cell nucleus, Chemical control (insects), Cuticle, Cytology, DDT, Eriophyidae, Insecticide resistant insects, Larvae, Leukocytes, Ornamental plant culture, Polymorphism, Rhizoglyphus echinopus, Tetranychidae.

14639-69
PULMONARY DISEASE IN KENYA SHEEP.
 M Murray
Bull Epiizoot Dis Afr 15(4):355-357
 Dec 1967 41.8 B872
 Cysts, Dictyocaulus filaria, Echinococcus granulosus, Helminthiasis, Livestock diseases, Lungs, Muellerius capillaris, Parasitic bronchitis, Parasitism, Pneumonia, Protostrongylus, Pulmonary adenomatosis, Sheep.

14640-69
CHARACTERISTICS FOR TWO CLASSES OF EMBRYONIC CELLS IN ONCOSPHERES OF HYMENOLEPIS DIMINUTA STAINED FOR CYTOPLASMIC SUBSTANCES.
 R E Ogren
Amer Microscop Soc Trans 87(1):82-97 REF
 Jan 1968 440.9 AM33
 Biochemistry, Cytology, Embryology, Hymenolepis diminuta.

14641-69
THE BASIC CELLULAR PATTERN FOR UNDIFFERENTIATED ONCOSPHERES OF HYMENOLEPIS DIMINUTA.
 R E Ogren
Amer Microscop Soc Trans 87(4):448-463 REF
 Oct 1968 440.9 AM33
 Cytology, Hymenolepis diminuta, Physiology.

14642-69
LOCALIZATION OF GLYCOGEN IN THE CESTODE, HYMENOLEPIS DIMINUTA.
 M Reissig A V Colucci
J Cell Biol 39(3):754-763 REF
 Dec 1968 442.8 J828
 Cestoda, Electron microscopy, Glycogen, Hymenolepis diminuta, Rats.

14643-69
RESPIRATORY ACTIVITY OF TRYPARASOMA LEWISI DURING SEVERAL PHASES OF INFECTION IN THE RAT.
 G Sanchez D G Dusanic
Exp Parasitol 23(3):361-370 REF
 Dec 1968 436.8 EX7
 Antimetabolites, Biochemistry, Infectious diseases, Metabolism, Rats, Respiration, Trypanosoma lewisi.

14644-69
TRYPARASOMA LEWISI: CREATINE PHOSPHOKINASE, ORNITHINE CARBAMYL TRANSFERASE, ATPASES, PI, AND GLUCOSE LEVELS IN THE RAT HOST.
 G Sanchez D G Dusanic
Exp Parasitol 23(3):371-378 REF
 Dec 1968 436.8 EX7

Biochemistry, Enzymes, Infectious diseases, Metabolism, Rats, Trypanosoma lewisi.

14645-69
BLOOD CHEMICAL AND CELLULAR CHANGES IN CANINE DIROFILARIASIS.
 J W Snyder S K Liu R J Tashjian
Amer J Vet Res 28(127):1705-1710
 Nov 1967 41.8 AM3A
 Biochemistry, Blood proteins, Dirofilariasis, Dogs.

14646-69
EFFICACY OF NICLOSAMIDE IN THE TREATMENT OF TAENIA TAENIAEFORMIS INFECTIONS IN CATS.
 R B Wescott
Amer J Vet Res 28(126):1475-1477
 Sep 1967 41.8 AM3A
 Cats, Cestoda, Drug therapy, Niclosamide, Taenia taeniaeformis, Taeniasis.

COMMODITY PROTECTION

ARTHROPODS

14647-69
SUSCEPTIBILITY OF 'TAPIOCA MACARONI' TO INSECT ATTACK.
 H G Khalsa B S Nigam
Pesticides 1(9):31-33 REF
 May 1968 SB951.P43
 Cassava, Insect pests, Macaroni, Starches, Stored products. Tapioca macaroni is a commercial product made of cassava starch, peanut and wheat flours.

RODENTS AND OTHER PESTS

14648-69
A NEW IDEA FROM CALIFORNIA--LOLLIPOP BAIT CUBE.
 Anonymous
Pest Contr 36(10):30,32,34,36
 Oct 1968 449.8 EX8
 Animal traps, Baits, Chemical control (pests), Diphacinone, Paraffin wax, Pindone, Rats, Rodent control.
 The use of diphacinone in paraffin wax for rat baits in California is discussed.

MICROBIAL CONTAMINATION

14649-69
WHAT THE SANITARIAN SHOULD KNOW ABOUT STAPHYLOCOCCI AND SALMONELLA IN NON-DAIRY PRODUCTS. II. SALMONELLAE.
 F L Bryan
J Milk Food Technol 31(5):131-140 REF
 May 1968 44.8 J824
 Agricultural products, Epidemiology, Feed, Food processing, Livestock, Microbiology, Poultry, Salmonella paratyphi, Salmonella typhimurium, Spraying, Staphylococcus.

14650-69
PREPARATION OF DEHYDRATED TOMATO POWDER SAMPLES FOR HOWARD MOLD COUNT.
 B Kunitz
Ass Offic Anal Chem J 51(1):78-80
 Jan 1968 381 AS7
 Methodology, Molds, Temperature, Tomatoes.

14651-69
STUDY OF THE ANTIFUNGAL PROPERTIES OF 8-HYDROXYQUINOLINE TARTRATE.

M N Rotmistrov I A Vasilevskaya E M Skrynik Z A Sukhorukova
Microbiology 37(3, MAY-JUN):377-380
 Jun 1968 448.3 M582AE
 Cladosporium, Fungi, Fungicides, Hydroxyquinoline, Penicillium, Tartrates, Wine. Russian journal- vol. 37(3):466-470, May-Jun. 1968

ENVIRONMENTAL CONTAMINATION

14652-69
GUIDELINES FOR EVALUATING THE PROPERTIES OF PESTICIDES FOR SAFE USE IN THE WILDLIFE ENVIRONMENT.
 E E Kenaga
Down Earth 23(4):11-18 SPRING
 1968 381 D75
 Accident prevention, Air pollution, Animal ecology, Biochemistry, Dosage, Environment, Pesticide application, Pesticide residues, Pesticides, Toxicology, Water pollution, Wildlife.

RESIDUES

14653-69
INFLUENCE OF RESIDUES OF SOME TRIAZINE HERBICIDES UPON WHEAT AND WEEDS IN WHEAT CROPS. (CZ)
 T Cincovic B Sinzar
Zastita Bilja 12(91-92):293-304 REF
 1966 446.8 Z1
 Atrazine, Chemical control (weeds), Herbicide residues, Herbicides, Simazine, Soil properties, Triazine, Weed control, Weeds, Wheat. English summary

14654-69
NOTICE OF WITHDRAWAL OF PETITION REGARDING PESTICIDES.
 R E Duggan
Fed Regist 33(240):18408
 11 Dec 1968 L1.451
 Agricultural products, Benzo(b)thiophene-4-ol, Benzo(b)thiophene-4-ol, Biochemistry, Corn, Feed, Forage plants, Insecticides, Pesticide residues.

14655-69
5,6-DICHLORO-1-PHENOXYCARBONYL-2-TRIFLUOROMETHYL BENZIMIDAZOLE. NOTICE OF EXTENSION OF TEMPORARY TOLERANCE.
 J K Kirk
Fed Regist 34(19):1406
 29 Jan 1969 L1.451
 Insecticides, Dichloro-1-phenoxy carbonyl-2-trifluoromethylbenzimidazole, 5,.

14656-69
SYSTEMIC ACTIVITY OF ZECTRAN, MATACIL AND BIDRIN INJECTED INTO CONIFER TRUNKS.
 J E Larson G R Pieper H C Raths
Pest Mont J 1(2):49-53
 Sep 1967 SB951.A1P41
 Abies grandis, Biological assay, Chemicals, Choristoneura fumiferana, Coniferae, Dimethylamino-m-tolyl methylcarbamate, 4-, Dimethylamino-3,5-xylyl methylcarbamate, 4-, Hydroxy-N,N-dimethyl-cis-crotonamide dimethyl phosphate, 3-, Insecticides, Organophosphorus compounds, Pesticide residues, Pseudotsuga menziesii, Tables (data).

14657-69
ORGANOCHLORINE INSECTICIDE RESIDUES IN COMPLETE PREPARED MEALS: A 12-MONTH SURVEY IN S. E. ENGLAND. GEOMETRICAL ISOMERS OF CHRYSANTHEMIC, PYRETHRIC AND RELATED ACIDS AND OPTICAL ISOMERS OF CINEROLONE AND ALLETHROLONE.

A E J McGill J Robinson C Potter
Food Cosmet Toxicol 6(1):45-57 REF

Jun 1968 391.8 F73

Acids, Allethrin, Chlorinated hydrocarbons, Chromatography, Dieldrin, DDT, Dysdercus fasciatus, Esters, Food analysis, Insecticide residues, Insecticides, *Musca domestica*, Pyrethrum, *Tenebrio molitor*, Toxicology.

14658-69

THE DETERMINATION OF SOME SUBSTITUTED UREA HERBICIDE RESIDUES IN SOIL BY ELECTRON-CAPTURE GAS CHROMATOGRAPHY.

C E McKone

J Chromatography 44(1):60-66 REF

14 Oct 1969 475 J824

Chromatography, Electron capture, Herbicide residues, Herbicides, Linuron, Urea herbicides.

14659-69

DETERMINATION OF INSECTICIDE RESIDUE IN ANIMAL AND PLANT TISSUES. IV: DETERMINATION OF RESIDUAL AMOUNT OF SUMITHION AND SOME OF ITS METABOLITES IN FRESH MILK.

J Miyamoto Y Sato S Suzuki

Botyu-kagaku 32(4):95-100 REF

Nov 1967 421 B65

Animals, Dimethyl O-(4-nitro-m-tolyl) phosphorothioate, O,O-, Insecticide residues, Metabolites, Milk, Organophosphorus compounds, Plants, Tissues.

TOXICOLOGY

14660-69

EXCRETION OF AFLATOXIN IN A LACTATING COW. *DROSOPHILA MELANOGASTER* TO ANESTHESIA.

R Allcroft B A Roberts M K Lloyd

Food Cosmet Toxicol 6(5):619-625

Dec 1968 391.8 F73

Aflatoxin, Anesthesia, Biochemistry, Carbon dioxide, Cattle, *Drosophila melanogaster*, Ethyl ether, Excretion, Insect physiology, Lactation, Milk, Temperature, Urine.

14661-69

TWO CASES OF UREA POISONING IN DAIRY HERDS.

M W Crowe

Mod Vet Pract 49(3):40-41

Mar 1968 41.8 N812

Autopsies, Dairy cattle, Feed toxicity, Microorganisms, Nitrogen, Ruminants, Sheep, Toxicology, Urea.

14662-69

EFFECT OF CARBARYL ON THE NEUROENDOCRINE SYSTEM OF RATS. FOODSTUFFS: A MULTI-DETECTION SCHEME FOR GAS CHROMATOGRAPHY OF SOLVENT EXTRACTS.

A I Shtenberg M N Rybakova

Food Cosmet Toxicol 6(4):461-467 REF

Dec 1968 391.8 F73

Animal physiology, Carbamates, Carbaryl, Chemical analysis, Chromatography, Fumigants, Grain, Insecticides, Methodology, Neuroendocrinics, Rats.

14663-69

METHYL BROMIDE CAN BE DANGEROUS.

G R Simpson

Agri Gaz New S Wales 78(PT 2):113-117

Feb 1967 23 N472

Accidents, Fumigants, Insecticides, Methyl bromide, Toxicology.

14664-69

AN INTERACTION OF DIELDRIN WITH THIAMINE.

I J Tinsley

Soc Exp Biol Med Proc 129(2):463-465

Nov 1968 442.9 SO1

Dieldrin, Nutrition, Physiology, Rats, Thiamine.

BIBLIOGRAPHY

14665-69

FUNGITOXIC ACTION OF HIGHER ALKYL COMPOUNDS. I. MECHANISM OF FUNGITOXIC ACTION OF ALKYLPHENOLS.

Y Uesugi K Fukunaga

Phytopathol Soc Jap Ann 33(3):168-175 REF

Jun 1967 464.9 P562

Adsorption, Blast, Cells, Fungi, Fungicides, Glucose, Glutamate, Ninhydrin reaction, Organic compounds, Pentachlorophenol, Phenols, *Piricularia oryzae*, Plant physiology, Plant translocation, Rice, Toxicology. Abstract in Japanese

PLANT PHYSIOLOGY & BIOCHEMISTRY

14666 69

THE RESPIRATION AND FLOWER DEVELOPMENT OF EVERGREEN AZALEAS AS INFLUENCED BY GIBBERELLIN, SCALE REMOVAL, AND 2,4-DINITROPHENOL.

D J Ballantyne

Can J Bot 46(2):165-168 REF

Feb 1968 470 C16C

Azalea, Biochemistry, Dinitrophenol, 2,4-, Flowers, Gibberellins, Ornamental trees, Plant morphology, Plant respiration.

14667-69

THE SEPARATION OF THE PROTEINS OF WHEAT BY ACRYLAMIDE GEL ELECTROPHORESIS, WITH SPECIAL REFERENCE TO MOTTLED AND UNMOTTLED WHEAT.

J T Barber H L Wood F C Steward

Can J Bot 45(1):5-19 REF

Jan 1967 470 C16C

Acrylamide, Biochemistry, Electrophoresis, Gels, Mottle, Plant physiology, Proteins, Wheat.

14668-69

EFFECT OF PHYTOTOXINS FROM THE DECOMPOSITION OF ORGANIC MATTER UPON PEANUT SEEDLING EMERGENCE. (ABSTRACT).

H W Boyd

Phytopathology 58(6):726

Jun 1968 464.8 P56

Corn, Greenhouse culture, Peanuts, Plant physiology, Plant residues, Seedlings, Soil amendments, Toxins.

14669-69

BLUE LIGHT PROMOTES SYMPTOM FORMATION AND VIRUS MULTIPLICATION IN PLANTS.

R Casper

Virology 34(1):179-181

Jan 1968 448.8 V81

Lighting, Metabolism, Plant physiology, Tobacco, Virus diseases (plants).

14670-69

RELATIONSHIP BETWEEN THE NUMBER OF SUCKERS (TILLERS) AND THE NUMBER OF ADVENTITIOUS ROOTS DURING THE DEVELOPMENTAL CYCLE OF HARD CORN SENSITIVE TO RADIAL TIPPING AND A REPORT CONCERNING THE TREATMENT WITH AUXIN, GIBBERELLIN, ACTIVATORS AND GROWTH INHIBITORS OF THE CCC TYPE. (FR)

H Chlyah

Acad Sci Compt Rend Ser D Sci Nat 266(16, 1ST SEMESTER):1662-1664

17 Apr 1968 505 P21

Chloroethyltrimethylammonium chloride, (2-, Corn, Gibberellins, Plant growth inhibitors, Plant physiology, Plant regulators.

14671-69

MYCOBACTERIUM TUBERCULOSIS IN MACROPHAGES: EFFECT OF CERTAIN SURFACTANTS AND OTHER MEMBRANE-ACTIVE COMPOUNDS.

P D'Arcy Hart

Science 162(3854):686-689 REF

08 Nov 1968 470 SCI2

Biochemistry, Cells, Culture media, Macrophages, Permeability, Physiology, Surface-active agents, Tuberculosis.

14672-69

EFFECT OF D-GALACTOSE ON THE ULTRASTRUCTURE OF BENTGRASS ROOT APOICES.

R M Endo W W Thomson E M Krausman

Can J Bot 46(4):391-395 REF

Apr 1968 470 C16C

Agrostis, Biochemistry, Cells, Galactose, Plant anatomy, Plant growth inhibitors, Plant morphology, Research, Roots.

14673-69

HORMONES FROM THE FLY AGARIC (AMANITA). (GE)

C H Eugster

Naturwissenschaften 55(7):305-313 REF

Jul 1968 474 N213

Amanita muscaria, Choline, Hormones,

Muscarine.

14674-69

SOME RESULTS FROM ALLIUM TESTS WITH ORGANIC MERCURY HALOGENIDES.

G Fiskejso

Hereditas 62(3):314-322

1969 442.8 H42

Bromides, Chromosomes, Ethyl chloride, Mercury compounds, Methoxyethylmercury chloride, 2-Methyl chloride, Onions, Organic compounds, Plant genetics.

14675-69

MICROSOMAL N-DEMETHYLATION, BY A COTTON LEAF OXIDASE SYSTEM, OF 3-(4-CHLOROPHENYL)-1,1-DIMETHYLUREA (MONURON).

D S Frear

Science 162(3854):674-675

08 Nov 1968 470 SCI2

Adenine nucleotides, Biochemistry, Cotton, Enzymes, Herbicides, Leaves, Monuron, Nicotinamide, Oxidases, Plant physiology.

14676-69

METABOLISM OF AROMATIC COMPOUNDS IN HEALTHY AND RUST-INFECTED PRIMARY LEAVES OF WHEAT. II. STUDIES WITH L-PHENYLALANINE-U-14C, L-TYROSINE-U-14C, AND FERULATE-U-14C.

A Fuchs R Rohringer D J Samborski

Can J Bot 45(11):2137-2153 REF

Nov 1967 470 C16C

Biochemistry, Cinnamic acid compounds, Metabolism, Phenylalanine, Plant physiology, Radioactive tracers, Research, Rust (wheat), Tyrosine, Wheat.

14677-69

CALCIUM LOCALIZATION IN HYPMYCES-INFECTED SQUASH HYPOCOTYLS AND EFFECT OF CALCIUM ON PECTASE LYASE AND TISSUE MACERATION.

J G Hancock M E Stanghellini

Can J Bot 46(4):405-409 REF

Apr 1968 470 C16C

Biochemistry, Calcium, Hypomyces, Pectase, Plant physiology, Squash, Tissues.

14678-69

IS IT POSSIBLE TO DRAW ANY CONCLUSIONS FROM THE RED EPIDEMIC OF 1967, IN REGARD TO THE APPEARANCE OF THE DISEASE DURING THIS YEAR. (GE)

J Henner

Pflanzenarzt 21(5):69

01 May 1968 464.9 P482

Biochemistry, Copper, Epidemiology, Fungi, Fungicides, *Peronospora*, *Pseudopcziza*, Rainfall, Spraying, Temperature.

14679-69

THE FINE STRUCTURE OF HYPHAE OF HELMINTHOSPORIUM ORYZAE ITO ET KURIB. AND PYRICULARIA ORYZAE CAVARA. (JA)

O Horino S Akai

Phytopathol Soc Jap Ann 34(1):36-39 REF
Jan 1968 464.9 P562
Cell nucleus, Cell wall, Cytoplasm, Electron microscopy, Fungi, *Helminthosporium oryzae*, Hyphae, Lipids, Microbiology, Mitochondria, Plant cytology, Plant diseases, Plant physiology, Pyricularia oryzae. Abstract in English

14680-69
THE INFLUENCE OF CCC ON LODGING AND DEVELOPMENT OF GRAIN.
H Linser
Bodenkultur 19(3):185-212 REF
19 B635
Barley, Grain, Lodging, Oats, Organophosphorus compounds, Plant biochemistry, Plant disease resistance, Plant physiological diseases, Plant regulators, Rye. English summary.

14681-69
THE CYTOLOGY OF INFECTION STRUCTURE DEVELOPMENT IN UREDIOSPORE GERM TUBES OF UROMYCES PHASEOLI VAR. TYPICA (PERS.) SWINT.
R Maheshwari A C Hildebrandt P J Allen
Can J Bot 45(4):447-450 REF
Apr 1967 470 C16C
Cytology, Plant physiology, Uredinales, Uromyces phaseoli typica.

14682-69
THE ERYSPHE CICHORACEARUM CONIDIUM.
W E McKeen N Mitchell R Smith
Can J Bot 45(9):1489-1496 REF
Sep 1967 470 C16C
Biochemistry, Cell nucleus, Erysiphe cichoracearum, Plant physiology.

14683-69
CUCUMBER SEX EXPRESSION MODIFIED BY 2-CHLOROETHANEPHOSPHONIC ACID.
A L McMurray C H Miller
Science 162(3860):1397-1398
20 Dec 1968 470 SCI2
Biochemistry, Breeding, Cucumbers, Halogenated hydrocarbons, Plant physiology, Reproduction, Seeds, Sex determination.

14684-69
METABOLISM OF GLUCOSE-14C, PYRUVATE-14C, AND MANNITOL-14C BY MELAMPSORA LINI. II. CONVERSION TO SOLUBLE PRODUCTS.
D Mitchell M Shaw
Can J Bot 46(4):453-460 REF
Apr 1968 470 C16C
Biochemistry, Carbon isotopes, Fungi, Glucose compounds, Mannitol, Melampsora lini, Metabolism, Plant physiology, Pyruvic acid.

14685-69
NUCLEUS OF FUSION BODY AND INFECTION STRUCTURE PRODUCED BY UREDOSPORES OF THREE RUST FUNGI. (JA)
N Naito T Onoe
Phytopathol Soc Jap Ann 34(2):103-108 REF
Mar 1968 464.9 P562
Cell nucleus, Cells, Fungus diseases (plants), Microbiology, Mycology, Plant morphology, Plant physiology, *Puccinia coronata*, Uredinales, Uromyces. Summary in English

14686-69
BIOLOGICAL ACTIVITY AND DISSIPATION OF IPC AND CIPC. (ABSTRACT).
J V Parochetti G F Warren
Weed Soc Amer Abstr 1967 MEETING:73-74
1967 241 W41
Biological assay, Buckwheat, Chlorinated hydrocarbons, Chlorpropham, Diffusion, Herbicides, Plant biochemistry, Propham.

14687-69
ON THE OCCURRENCE OF PERIDERM IN THE LEAVES OF WELWITSCHIA MIRABILIS.
R Salema
Can J Bot 45(9):1469-1471
Sep 1967 470 C16C
Fungus diseases (plants), Leaves, Periderm, Plant physiology.

14688-69
2,4-D, TO RIPEN TOBACCO MAY BE DETERIMENT TO PRODUCER AND INDUSTRY.
H Seltmann G F Peckin
Flue Cured Tobacco Farmer 5(6):8-9
Jun 1968 SB273.A1F58
Biochemistry, D, 2,4-, Flue-cured tobacco, Growth factors, Herbicides, Pesticide residues, Plant physiology, Plant regulators, Tobacco.

14689-69
SOME PHYSIOLOGICAL EFFECTS OF COTTON ON UNICELLULAR ALGAE. (ABSTRACT).
H C Sikka D Pramer
Weed Soc Amer Abstr 1967 MEETING:54
1967 241 W41
Algae, Chlorella, Dimethyl-3-(alpha,alpha,alpha-m-tolyl)urea, 1,1-, Euglena gracilis, Herbicides, Photosynthesis, Plant physiology, Plant respiration.

14690-69
PHYSIOLOGICAL EFFECTS OF PENTACHLOROBENZYLALCOHOL ON RICE PLANTS. (JA)
H Sumi Y Takahashi K Nakagami Y Kondo
Phytopathol Soc Jap Ann 33(3):150-155 REF
Jun 1967 464.9 P562
Blast, Carbohydrates, Culture media, Fungicides, Nitrogen, Pentachlorobenzyl alcohol, *Piricularia oryzae*, Plant biochemistry, Plant physiology, Rice, Spraying. Abstract in English

14691-69
INHIBITORY EFFECT OF PENTACHLOROBENZYL ALCOHOL (PCBA) ON SPORULATION OF PIRICULARIA ORYZAE CAVARA. (JA)
H Sumi Y Takahashi Y Kondo
Phytopathol Soc Jap Ann 34(2):122-128 REF
Mar 1968 464.9 P562
Blast, Chemical control (plant diseases), Fungicides, Greenhouse culture, Leaves, Pentachlorobenzyl alcohol, *Piricularia oryzae*, Plant biochemistry, Plant growth inhibitors, Plant physiology, Plant reproduction, Rice, Seedlings, Spraying, Temperature. Abstract in English

14692-69
CONTROLLING EFFECT OF PENTACHLOROBENZYL ALCOHOL ON RICE BLAST. (JA)
H Sumi Y Takahashi Y Kondo K Nakagami
Phytopathol Soc Jap Ann 34(2):114-121
Mar 1968 464.9 P562
Blast, Chemical control (plant diseases), Dosage, Fungicides, Greenhouse culture, Pentachlorobenzyl alcohol, Phenylmercuric acetate, Plant biochemistry, Rice, Spraying, Toxicology, Abstract in English.

14693-69
DISCOLORATION OF CHLORELLA CELLS TREATED WITH SEVERAL PESTICIDES- UTILIZATION OF CHLORELLA CELLS FOR THE STUDY OF PESTICIDES. (JA)
K Tatsuyama
Phytopathol Soc Jap Ann 33(3):192-195
Jun 1967 464.9 P562
Algae, Cells, Chemurgy, Chlorella, Color, Dosage, Pesticides, Pigments (plant), Plant biochemistry, Plant physiology.

14694-69
EXOCELLULAR DEOXYRIBONUCLEASE I OF PENICILLIUM CHRYSOZENUM PART I. PARTIAL PURIFICATION AND PROPERTIES OF THE ENZYME.
V L Vinze G R Ambekar V M Doctor
Indian J Biochem 2(4):220-224 REF
Dec 1965 QP501.148
Deoxyribonucleases, Enzymes, Fungi, *Penicillium chrysosporium*, Plant biochemistry, Properties, Purification.

14695-69
TWO IMPORTANT DISEASES OF WALNUT TREES. (GE)
G Vukovitis
Pflanzenarzt 21(5):64-65
01 May 1968 464.9 P482
Bacterial diseases (plants), Biochemistry, Blight, Captain, Chemical control (plant diseases), Dodine, Fungicides, Fungus diseases (plants), *Gnomonia leptostyla*, Spraying, Tree diseases, Walnuts, *Xanthomonas juglandis*, Zineb.

14696-69
A MORPHOLOGICAL AND BIOLOGICAL CONCEPT OF THE SPECIES CERATOCYSTIS FIMBRIATA.
R K Webster E B Butler
Can J Bot 45(9):1457-1468 REF
Sep 1967 470 C16C
Biology, *Ceratocystis*, *Ceratocystis fimbriata*, Morphology, Plant physiology.

CHEMISTRY

14697-69
STABILITY AND EFFECTS OF SOME PESTICIDES IN SOIL.
R Bartha R P Lanzilotta D Pramer
Appl Microbiol 15(1):67-75 REF
Jan 1967 448.3 APS
Carbon dioxide, Chemicals, Microorganisms, Nitrification, Pesticides, Soils, Toxicology.

14698-69
AFLATOXIN DETOXIFICATION: HYDROXYHYDRO-AFLATOXIN BI.
A Ciegler R E Peterson
Appl Microbiol 16(4):665-666
Apr 1968 448.3 APS
Aflatoxin, Chemistry, Toxicology.

14699-69
'REDUCED VOLUME' BY HOW MUCH WHY ACTUAL STATE OF AFFAIRS. (FR)
A Fourcaud
Phytoma 19(193):15-19
Dec 1967 464.8 P563
Biochemistry, Chemicals, Economics, Oils, Pesticides, Spraying, Toxicology, Volumetric analysis.

14700-69
KINETIC EVIDENCE OF REVERSIBLE ISOCHOLINESTERASES BASED ON INHIBITION BY ORGANOPHOSPHATES. (ABSTRACT).
A R Main
Fed Amer Soc Exp Biol Fed Proc 27(2):590
Mar 1968 442.9 F31P
Acetylcholinesterases, Biochemistry, Blood serum, Diisopropyl fluorophosphate, Diethylaminoethyl) O,O-diethyl phosphorothioate hydrogen o, Electrophoresis, Enzymes, Erythrocytes, Horses, Insecticides, Kinetics, Organophosphorus compounds.

14701-69
SYNTHESIS AND REACTIONS OF A PROPOSED DDT METABOLITE, 2,2-BIS(P-CHLOROPHENYL)ACETALDEHYDE.
J D McKinney E L Boozier H P Hopkins J E Suggs
Experientia 25(9):897-898 REF
15 Sep 1969 475 EX7
Acetaldehyde, Chemical analysis, Chemical structure, Chlorinated hydrocarbons, Chromatography, DDT, Mass spectra, Metabolites, Synthesis.

14702-69
3-(N-FORMYLAMINO)-SALICYLIC ACID - A NEW METABOLITE OF STREPTOMYCES ANTIOTICUS.
Z Rehacek S Svarc
Chem Indus (44):1523
02 Nov 1968 382 M31C
Antibiotics, Chemical reactions, Chromatography, Formylamino-salicylic acid, 3-(N-, Metabolites, Salicylic acid, Spectrochemistry, Streptomycin.

14703-69

PREPARATION OF THE NEW FUNGICIDE

HEXIMIDE.

S D Volodkovich N N Mel'nikov T K

Yudovskaya

J Appl Chem USSR 41(6):1329-1331

Jun 1968 385 Z64AE

Apples. Chemical reactions, Chlorendic anhydride, Distillation, Fungicides, Fungus diseases (plants), Grapes, Hexachloro-N-o-tolyl-5-norbornene-2,3-dicarboximide, I, Mildew, Scab, Temperature, Toluene. Translated from Russian.

INDUSTRY

REGULATIONS

14704-69

NEW PLANT PROTECTION LAW IS IN FORCE. (GE)

Anonymous

Gesunde Pflanzen 20(6):117,118,120

Jun 1968 464.8 G33

Animals, Import control, Legislation, Plant diseases, Plant pest resistance, Plant protection, Public health. Article states that the text of the law appears in number 2/1968 of the same publication.

14706-69

PLANT PROTECTION CHEMICAL RESIDUES AND FOOD CONSUMPTION. (GE)

H Drees

Gesunde Pflanzen 20(3):53-56,58

Mar 1968 464.8 G33

Economic plants, Food contamination, Food plants, Legislation, Pesticide residues.

14705-69

THE REGULATION OF PESTICIDES IN THE UNITED STATES.

Anonymous

Nat Agr Chem Ass News Pesticide Rev 26(5):3-4

Jun 1968 421 AG8

Agricultural regulation, Pesticide residues, Pesticides, Public health.

14707-69

POTATO WART IN SWEDEN AND NATIONAL MEASURES FOR ITS CONTROL. (SW)

C Holmberg

Swed Stat Vaxtskyddsanst Medd 13(109):327-357

REF

1966 464.9 SW3M

Agricultural regulation, Plant disease control, Potatoes, Wart. German summary

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